

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

350 Wellington Road 7 | Elora,
Ontario

PREPARED FOR:

Elora 7 OP Inc
44 Upjohn Road
Toronto, Ontario

ATTENTION:

Colleen Forrest

Grounded Engineering Inc.

File No. 22-084-201

Issued October 11, 2022



TABLE OF CONTENTS

1	EXECUTIVE SUMMARY.....	4
2	INTRODUCTION	5
	2.1 PHASE ONE PROPERTY INFORMATION.....	5
3	SCOPE OF INVESTIGATION	5
4	RECORDS REVIEW	6
	4.1 GENERAL.....	6
	4.1.1 Phase One Study Area Determination.....	6
	4.1.2 First Developed Use Determination	6
	4.1.3 Fire Insurance Plans.....	6
	4.1.4 Chain-of-Title	6
	4.1.5 City Directory	7
	4.1.6 Environmental Reports.....	7
	4.2 ENVIRONMENTAL SOURCE INFORMATION.....	7
	4.2.1 EcoLog ERIS	7
	4.2.2 Other Source Information.....	7
	4.3 PHYSICAL SETTING SOURCES	8
	4.3.1 Aerial Photographs.....	8
	4.3.2 Topography, Hydrology, Geology	9
	4.3.3 Fill Materials	9
	4.3.4 Water Bodies and Areas of Natural Significance	9
	4.3.5 Well Records.....	10
	4.3.6 Municipal Drinking Water System.....	11
	4.3.7 Well-Head Protection Area.....	11
5	SITE OPERATING RECORDS.....	11
6	INTERVIEWS.....	11
7	SITE RECONNAISSANCE	11
	7.1 GENERAL REQUIREMENTS	11
	7.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY	12
	7.2.1 Exterior Site Conditions.....	12
	7.2.2 Building Structures and Building Systems.....	12
	7.2.3 Above Ground Storage Tanks	12
	7.2.4 Underground Storage Tanks and Below Grade Structures	13
	7.2.5 Enhanced Investigation Property (Additional Information).....	13
	7.3 INVESTIGATION OF THE PHASE ONE STUDY AREA.....	13
	7.4 WATER WELLS, WATERBODIES & AREAS OF NATURAL SIGNIFICANCE	13
	7.4.1 Water Wells.....	13
	7.4.2 Waterbodies	14
	7.4.3 Areas of Natural Significance	14
	7.5 WRITTEN DESCRIPTION OF INVESTIGATION	14
8	REVIEW AND EVALUATION OF INFORMATION	14
	8.1 CURRENT AND PAST USES	14
	8.2 POTENTIALLY CONTAMINATING ACTIVITY.....	14



8.3	AREAS OF POTENTIAL ENVIRONMENTAL CONCERN	14
8.4	UNCERTAINTY AND ABSENCE OF INFORMATION	15
8.5	PHASE ONE CONCEPTUAL SITE MODEL	15
9	CONCLUSIONS	15
9.1	WHETHER PHASE TWO ENVIRONMENTAL SITE ASSESSMENT REQUIRED BEFORE RECORD OF SITE CONDITION SUBMITTED	15
9.2	RECORD OF SITE CONDITION BASED ON PHASE ONE ENVIRONMENTAL SITE ASSESSMENT ALONE	15
9.3	SIGNATURES	16
10	REFERENCES	17
11	LIMITATIONS AND RESTRICTIONS	18
11.1	REPORT USE	18

FIGURES

- Figure 1 – Site Location Plan
- Figure 2 – Site Plan
- Figure 3 – Phase One Study Area
- Figure 4 – PCA Locations

TABLES

- Table 1 – Table of Current and Past Use

APPENDICES

- Appendix A – Plan of Survey
- Appendix B – Fire Insurance Plans
- Appendix C – Chain of Title
- Appendix D – City Directory
- Appendix E – EcoLog ERIS
- Appendix F – Regulatory Responses
- Appendix G – Aerial Photographs
- Appendix H – Topographic and Geologic Maps
- Appendix I – Well Records
- Appendix J – Site Photographs
- Appendix K – Phase One Conceptual Site Model



1 Executive Summary

Elora 7 OP Inc retained Grounded Engineering Inc., to complete a Phase One Environmental Site Assessment (Phase One ESA) of the Phase One Property (Property) located south of Wellington Road 7 and South St at the municipal address of 350 Wellington Road 7, Elora, Ontario. The site location is presented in Figure 1.

The Property is rectangular in shape, with a total area of 4.48 ha. The Property is currently used for agricultural purposes and is occupied by a farming field.

As noted in Table 1, the Property has been used for agricultural land use from at least 1930 to present day. Per Ontario Regulation 153/04 (O. Reg. 153/04), the property use is Agricultural or Other. It is understood that the Phase One Property will be developed with a subdivision of residential townhouses that will total 273 units, roads and parking to service the homes, and park in the centre of the Property. The Phase One ESA has been prepared for the purpose to support an OPA and ZBA submission and in accordance with O. Reg. 153/04. The Phase One Property is presented in Figure 2.

The Phase One ESA identified no Areas of Potential Environmental Concern on the Property. Should an RSC be required, it may be filed based on the Phase One ESA alone.



2 Introduction

Elora 7 OP Inc retained Grounded Engineering Inc., to complete a Phase One Environmental Site Assessment (Phase One ESA) of the Phase One Property (Property) located south of Wellington Road 7 and South St at the municipal address of 350 Wellington Road 7, Elora, Ontario. The site location is presented in Figure 1.

2.1 Phase One Property Information

The Property is rectangular in shape, with an area of 4.48 ha. The Property is currently used for agricultural purposes and is occupied by a farming field. It is understood that the Phase One Property will be developed with a subdivision of residential townhouses that will total 273 units, roads and parking to service the homes, and park in the centre of the Property. The Phase One ESA has been prepared for the purpose to support an OPA and ZBA submission and in accordance with Ontario Regulation 153/04 (O. Reg. 153/04). The Phase One Property Site Plan is presented in Figure 2.

The Property information is provided below:

Municipal Address	350 Wellington Road 7, Elora, Ontario
Legal Description	Plan 61R – 9984, Lot 1, Concessions 'A'. West of the Grand River
PIN(s)	71426-0047 (LT)
Property Use	Agricultural, proposed Residential
Property Owner Information	Elora 7 OP Inc. 44 Upjohn Road Toronto, ON M3B 2W1
Person who has engaged the Qualified Person to conduct the Phase One ESA	Colleen Forrest Elora 7 OP Inc.

3 Scope of Investigation

The Phase One ESA includes the following components:

- Records review of historical and current occupancies and activities on the Phase One Property and Phase One Study Area.
- Interviews with available personnel with knowledge to the historical and current activities on the Phase One Property.



- Site reconnaissance of the Phase One Property and Study Area to identify potential environmental concerns based on observations of historical and current uses, and potentially contaminating activities at the Phase One Property and in the Study Area.
- Evaluation of information from records review, interviews and site reconnaissance and completion of a conceptual site model (CSM).

4 Records Review

4.1 General

4.1.1 Phase One Study Area Determination

The Phase One Study Area (Study Area) includes all properties located, partly or wholly, within the 250-m radius from the Phase One Property boundary.

The surrounding properties include residential properties and the Elora municipal cemetery to the north, farming fields to the south and west, and a residential use area to the east. Irvine Creek is located approximately 250 m to the northeast of the Property. The Study Area is presented in Figure 3.

4.1.2 First Developed Use Determination

Based on the review of historical records, the land use of the Property has remained agricultural since transferred from the Crown into private ownership.

4.1.3 Fire Insurance Plans

There were no Fire Insurance Plans (FIP) available for review for the Phase One Property and Study Area. Adequate information was provided by other sources.

4.1.4 Chain-of-Title

Chain-of-title dating back to the transfer from Crown was available for review for the Phase One Property. The search identified that the Property was transferred into private ownership from the crown in 1798. The Property was subsequently owned by private individuals from 1798 to 1976 and by corporate entities from 1976 to present. The chain-of-title indicates the Property is owned by Radaja Inc. since 2021. The chain-of-title is presented in Appendix C. Elora 7 OP Inc is the current owner.

The chain-of-title search did not identify any potentially contaminating activities (PCAs).



4.1.5 City Directory

There were no City Directories available for review for the Phase One Property or the Phase One Study Area. Adequate information was available through other sources.

4.1.6 Environmental Reports

There were no environmental reports available for review for the Property.

4.2 Environmental Source Information

4.2.1 EcoLog ERIS

Ecolog Environmental Risk Information Services Ltd. (ERIS) is a provider of detailed environmental risk data and research for properties in Canada. A search of the ERIS database was requested for the Property and the Study Area. The ERIS report is provided in Appendix E.

There were no PCAs observed on the Property or within the Study Area.

There were no sites within the Study Area identified to have a Record of Site Condition (RSC).

4.2.2 Other Source Information

Other source information listed below were searched as part of the Phase One ESA. The regulatory information requests and responses are provided in Appendix F and summarized below. There were no PCAs identified in this information.

Source of Information	Response
Ministry of the Environment, Conservation and Parks (MECP) PCB Storage Sites and Waste Disposal Sites	The MECP PCB Storage Sites and Waste Disposal Sites were searched through EcoLog ERIS database and reviewed in Section 4.2.1. There were no PCB Storage Sites or Waste Disposal Sites identified on the Property or within the Study Area.
Technical Standards and Safety Authority (TSSA)	A response from the TSSA indicated that there are no fuel storage tanks records in the database for the Phase One Property and adjacent properties. The TSSA response and list of addresses searched is provided in Appendix F
Conservation Authority	A response from the Grand River Conservation Authority indicated that the Property is located within the GRCA jurisdiction and does fall within a GRCA regulated area.
Zoning	The Property zoning is A.12.3(T) according to Township of Centre Wellington Zoning By-law 2009-045.
Freedom of Information (FOI)	MECP has not responded to the FOI request as of the date of this report.



4.3 Physical Setting Sources

4.3.1 Aerial Photographs

Aerial photographs and satellite images were reviewed as part of the Phase One ESA. The developmental chronology of the Property and the Study Area is summarized below and presented in Appendix G.

Year	Source	Property	Study Area
1930	ERIS	The Property appeared to in use for agriculture	The surrounding area appeared to be used for agricultural purposes. Irvine Creek was located approximately 250 m to the northeast of the Property.
2000	Township of Centre Wellington Aerial Photographs	No significant changes.	Adjacent east to the Property residential houses were observed to be constructed along South St. and David St W. North to the Property residential houses were developed along Avruskin St. The site directly south and west to the Property appeared to remain vacant and be used for agricultural purposes.
2006	Google Satellite Image	No significant changes.	No significant changes.
2009	Google Satellite Image	No significant changes.	No significant changes.
2012	Google Satellite Image	No significant changes.	No significant changes.
2016	Google Satellite Image	No significant changes.	No significant changes.
2019	Google Satellite Image	No significant changes.	No significant changes.
2021	Google Satellite Image	No significant changes.	No significant changes.

Review of the aerial photographs and satellite imagery did not identify any PCAs.



4.3.2 Topography, Hydrology, Geology

The Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) databases were searched to obtain topographic and geological maps of Ontario for review. The maps are provided in Appendix H and the information obtained are summarized below:

Records	Information
Topographic Maps	The approximate elevation at the northwestern portion of the Property is 408 metres above sea level (mASL). The Property is relatively flat, with a slight slope towards the southeast to an approximate elevation of 405 mASL.
Hydrology	<p>The nearest water bodies are Irvine Creek (approximately 250 m to the northeast) and the Grand River (approximately 450 m south of the Property). There is a standing body of water adjacent to the Property to the west and another standing body of water adjacent to the Property to the northwest.</p> <p>Surface water flow is expected to infiltrate through the surface soil and flow with the groundwater. Groundwater is expected to flow southeast, towards Irvine Creek and Grand River, and ultimately south to Lake Ontario. Lake Ontario is located approximately 60 km to the southeast of Property.</p>
Geological Maps	<p><u>Overburden:</u> Sandy silt to silty sand-textured till</p> <p><u>Bedrock:</u> Guelph formation comprised of sandstone, shale, dolostone and siltstone</p> <p><u>Depth to Bedrock:</u> Based on the MECP Water Well Records, bedrock was encountered at approximately 25 m below ground surface (mBGS).</p>

4.3.3 Fill Materials

There were no evidence of the import of fill materials to the Property.

4.3.4 Water Bodies and Areas of Natural Significance

Maps from NDMNRF were reviewed to determine if water bodies were present on the Property and within the Study Area. The Ontario Ministry of Natural Resources Natural Heritage Information Centre database for Areas of Natural or Scientific Interest (ANSIs) was also reviewed as part of the Phase One ESA. The maps are provided in Appendix F and the information is summarized below:

Water Bodies	<p><u>Property:</u></p> <ul style="list-style-type: none"> No water bodies are located on the Property. <p><u>Study Area:</u></p> <ul style="list-style-type: none"> Irvine Creek is located approximately 250 m to the northeast of the Property.
---------------------	--



Wetlands	<p><u>Property:</u></p> <ul style="list-style-type: none"> No Provincially Significant, Non-Provincially Significant, and Unevaluated wetlands are located on the Property. <p><u>Study Area:</u></p> <ul style="list-style-type: none"> A provincially significant wetland is located approximately 55 m to the north of the Property. An unevaluated wetland is located approximately 57 m to the west of the southwest portion of the Property. An unevaluated wetland is located approximately 85 m to the west of the northwest portion of the Property. A provincially significant wetland is located approximately 128 m to the northwest of the northwest portion of the Property. An unevaluated wetland is located approximately 250 m to the north of the Property.
ANSIs	<p><u>Property:</u></p> <ul style="list-style-type: none"> No Provincially Significant Life Science and Earth Science ANSIs are located on the Property. <p><u>Study Area:</u></p> <ul style="list-style-type: none"> No Provincially Significant Life Science and Earth Science ANSIs are located within the Study Area.

4.3.5 Well Records

The Ministry of the Environment, Conservation and Parks (MECP) well records database was accessed online and through EcoLog ERIS search. All the well records located on the Property and in the Study Area were identified. The comprehensive well record is provided in Appendix I and is summarized below:

Well Records	<p><u>Phase One Property:</u></p> <ul style="list-style-type: none"> Thirteen (13) monitoring and test wells were identified on the Property. The monitoring wells were recently installed as part of a hydrogeological and geotechnical study completed for the Property in conjunction with this Phase One ESA. Given the newly construction of the monitoring wells, they were not identified in the MECP well database. <p><u>Study Area:</u></p> <ul style="list-style-type: none"> Nine (9) domestic wells were identified in the Study Area. Two (2) unknown wells were identified in the Study Area.
Stratigraphy	<ul style="list-style-type: none"> 0 to 0.8 – Earth fill 0.8 to 12.2 – Sand, brown with silt 12.2 to 14.3 – Clayey Silt, grey with sand
Depth to Bedrock	<p>Bedrock was encountered at approximately 26 mbgs (Well ID # 6706709).</p>



Depth to the Water Table	Based on the hydrogeology and geotechnical studies done by Grounded, in conjunction to the Phase One, the depth to the groundwater table is approximately 0.84 to 3.7 mbgs.
---------------------------------	---

4.3.6 Municipal Drinking Water System

The Phase One Property is not supplied by a municipal drinking water system. Only some properties within the Phase One Study Area are supplied by a municipal drinking water system as defined in the Safe Drinking Water Act, 2002.

4.3.7 Well-Head Protection Area

The Phase One Property is located within an area designated in the official plan of the municipality as a well-head protection area or another area designated in the official plan as an area for the protection of groundwater.

5 Site Operating Records

No site operating records was provided for review.

6 Interviews

An interview questionnaire has been sent to persons with knowledge of the Property. A response has not been received at the time of writing this report. Based on the available background information, it is the opinion of the qualified person that this does not impact the validity of the Phase One Environmental Site Assessment.

7 Site Reconnaissance

7.1 General Requirements

Date and Time of Investigation	11:00 am, May 02, 2022
Weather Condition	Sunny, 24°C
Duration of Investigation	1 hour
Was the Facility Operating at the Time of Investigation?	Yes, active farmland



Name and Qualifications of the Person Conducting the Investigation	Jason Ngo, BSc
---	----------------

A site reconnaissance of the Phase One Property consisted of detailed observation of the Property including exterior and interior portions of any existing buildings on site, documentation of any areas of potential environmental concern and illustration of relevant structures. Phase One Property features are displayed in Figure 2 and site photographs are presented in Appendix J. The results of the site reconnaissance are provided below.

7.2 Specific Observations at Phase One Property

7.2.1 Exterior Site Conditions

The Property is currently used for agricultural purposes. The ground surface is covered by a farm field. Nearby wetlands and standing bodies of water are observed to the south and northwest of the Property. The Property is generally gently rolling with a slight slope to the southeast.

The utilities and services on the Property is summarized below:

Hydro	No hydro enters the Property via southwest of Wellington Road 7.
Gas	No gas line enters the Property via southwest of Wellington Road 7.
Communication	No communication line enters the Property via southwest of Wellington Road 7.
Electrical/Street Lighting	No electrical line enters the Property via southwest of Wellington Road 7.
Storm Sewer	No catch basins, manhole, or mains are observed on or along the Property.
Sanitary Sewer	No manhole, or mains are observed on or along the Property.
Water Source	The Property is serviced with irrigation water.

7.2.2 Building Structures and Building Systems

There were no building structures observed on the Property.

7.2.3 Above Ground Storage Tanks

There was no evidence of above-ground storage tanks (ASTs) observed on the Property.



7.2.4 Underground Storage Tanks and Below Grade Structures

There was no evidence of underground storage tanks (USTs) or below-grade structures observed on the Property.

7.2.5 Enhanced Investigation Property (Additional Information)

The Property is not considered to be an Enhanced Investigation Property.

7.3 Investigation of the Phase One Study Area

The site investigation includes an inspection of the Phase One Study Area (Study Area). The adjacent properties were identified below during the investigation.

North	Residential – single-family homes Parkland – Elora Municipal Cemetery
South	Agricultural – farmland
West	Agricultural – farmland
East	Residential – single-family homes

The investigation of the Study Area did not identify any PCAs.

7.4 Water Wells, Waterbodies & Areas of Natural Significance

7.4.1 Water Wells

The following water wells were noted in the Study Area:

Location of Water Well	Water Well Use
7450 Middlebrook Rd	Domestic water supply
461 Wellington Road 7	Domestic water supply
469 Wellington Road 7	Domestic water supply
464 Ann St	Domestic water supply



7.4.2 Waterbodies

The following waterbodies were noted on the Phase One Property and in the Study Area:

Location of Waterbody	Description of Waterbody
Adjacent southwest of the Property	Wetland
Adjacent west of the Property	Standing body of water
Adjacent northwest of the Property	Standing body of water

7.4.3 Areas of Natural Significance

There are no Areas of Natural Significance present on the Phase One Property or within the Study Area.

7.5 Written Description of Investigation

The site reconnaissance did not identify any PCAs.

8 Review and Evaluation of Information

8.1 Current and Past Uses

A Table of Current and Past Uses of the Phase One Property, back to its first developed use, is provided in a form approved by the Director, in Table 1.

8.2 Potentially Contaminating Activity

The Phase One ESA has been prepared in accordance with O. Reg. 153/04. Based on the review of the available historical information and a detailed inspection of the Phase One Property, no PCAs have been identified on the Property.

8.3 Areas of Potential Environmental Concern

There were no areas of potential environmental concerns (APECs) identified on the Property.



8.4 Uncertainty and Absence of Information

During the records review, Grounded relied on information obtained from municipal, provincial, and independent sources as referenced in this report. Although the information was assessed for consistency, verification of the accuracy or the completeness of this third-party information was not completed.

Grounded have made all reasonable inquiries to obtain reasonably accessible information for this assessment. The evaluation provided in this report reflects our best judgment considering the information available at the time of its preparation.

There were no uncertainties, data gaps, or absence of information deemed to have affected the conclusion of the Phase One ESA.

8.5 Phase One Conceptual Site Model

A Phase One Conceptual Site Model (CSM) is provided in Appendix K.

9 Conclusions

9.1 Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted

Based on the result of the Phase One ESA, there were no APECS identified on the Phase One Property. A Phase Two ESA will not be required prior to the submission of a Record of Site Condition (RSC), should one be required.

9.2 Record of Site Condition Based on Phase One Environmental Site Assessment Alone

Based on the results of the Phase One ESA, there were no APECs identified on the Phase One Property. If required, an RSC can be filed based on the Phase One ESA alone.



9.3 Signatures

The Phase One ESA was conducted by Vivi Tran, EIT, under the supervision of Bailey Walters, MSc PGeo QP_{ESA/IRA}. The Phase One ESA has been conducted in accordance with Ontario Regulation 153/04.

We trust that this report meets your requirements at present.

For and on behalf of our team,



A handwritten signature in black ink, appearing to read 'V. Tran'.

Vivi Tran, EIT.
Project Coordinator

A handwritten signature in blue ink, appearing to read 'Bailey Walters'.

Bailey Walters, MSc PGeo QP_{ESA/IRA}
Senior Geoscientist





10 References

1. Centre Wellington. Zoning Maps. Retrieved from https://www.centrewellington.ca/en/doing-business/resources/Documents/Planning/Zoning/Maps/ZoningBy-Law_Map_12.pdf
2. Grand River Conservation Authority. GRCA Web-GIS Application. Retrieved from <https://maps.grandriver.ca/web-gis/public/?theme=MYP&bbox=544615,4837547,544921,4837722>
3. Ministry of the Environment, Conservation and Parks (MECP). Source Protection Information Atlas. Retrieved from: <https://www.gisapplication.lrc.gov.on.ca/SourceWaterProtection/Index.html?viewer=SourceWaterProtection.SWPViewer&locale=en-US>
4. Ministry of Environment, Conservation and Parks (MECP). Water Well Information System, Data Catalogue. Retrieved from: <https://data.ontario.ca/dataset/well-records>
5. Natural Resources Canada. The Atlas of Canada – Toporama. Retrieved from: <https://atlas.gc.ca/toporama/en/index.html>
6. Ontario Geological Survey 2011. 1:250,000 scale bedrock geology of Ontario. Ontario Geological Survey. Miscellaneous Release--Data 126-Revision 1.
7. Ontario Geological Survey. 2010. Surficial geology of Southern Ontario. Ontario Geological Survey. Miscellaneous Release--Data 128-Revised.
8. Ontario Geological Survey. 2000. Quaternary geology, seamless coverage of the Province of Ontario. Ontario Geological Survey. Data Set 14--Revised.



11 Limitations and Restrictions

The assessment should not be considered a comprehensive investigation that eliminates all risks of encountering environmental problems. The information presented in this report is based on information collected during the completion of the Phase One Environmental Site Assessment by Grounded Engineering Inc. It was based on the conditions on the Phase One Property at the time of the site inspection supplemented by a review of historical information to assess the environmental conditions regarding the Phase One Property.

Sampling and analysis of soil, groundwater or any other material was not carried out as part of the Phase One Environmental Site Assessment. As a result, the presence and/or extent of any adverse environmental impact cannot be confirmed. The potential for environmental liability and/or environmental impact is an opinion as a result of the scope of this assessment.

In assessing the environmental conditions and history of the Phase One Property, Grounded Engineering Inc. has relied on information provided by others, as noted in this report, and has assumed that the information provided by those individuals is factual and accurate. Grounded Engineering Inc. accepts no responsibility for any deficiency or inaccuracy in this report resulting from the information provided by those individuals.

If new information regarding the environmental condition of the Phase One Property is identified during future work, or outstanding responses from regulatory agencies indicate outstanding issues on file with respect to the Phase One Property, Grounded Engineering Inc. should be notified so that we may re-evaluate the findings of this assessment and provide amendments.

11.1 Report Use

The authorized user of this report is Elora 7 OP Inc, for whom this report has been prepared. Grounded Engineering Inc. maintains the copyright and ownership of this document. Reproduction of this report in any format or medium requires explicit prior authorization from Grounded Engineering Inc.

FIGURES





GROUND
ENGINEERING

1 BANIGAN DRIVE, TORONTO, ONT., M4H 1G3
www.groundedeng.ca

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- REGULATED WATERBODIES

Note

Reference

ArcGIS Online Map 2022

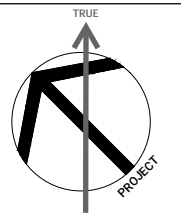
Project

**350 WELLINGTON
ROAD 7
ELORA, ONTARIO**

Figure Title

SITE LOCATION PLAN

North



Date

JUNE 2022

Scale

AS INDICATED

Job No

22-084

Figure No

FIGURE 1



GROUND
ENGINEERING

1 BANIGAN DRIVE, TORONTO, ONT., M4H 1G3
www.groundedeng.ca

LEGEND

- PROPERTY BOUNDARY
- MONITORING WELL/BOREHOLE BY GROUNDED
- GAS
- ELECTRICAL
- BURIED HYDRO
- OVERHEAD HYDRO
- WATER
- COMMUNICATION
- SANITARY
- STORM
- MANHOLE
- CATCH BASIN

Note
Utilities shown on this figure are shown for informational purposes only for the Phase One ESA, as outlined by O.Reg. 153/04. This is not an official locate and the information presented should not be relied upon.

Reference

Survey Drawing File Name: Site Survey.
Project no. 51060-200-T1. Dated May 04, 2022. Prepared by MTE Ontario Land Surveyors LTD. Received on May 09, 2022.

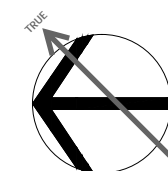
Project

**350 WELLINGTON ROAD 7
ELORA, ONTARIO**

Figure Title

PHASE ONE PROPERTY

North



Date

JUNE 2022

Scale

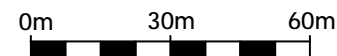
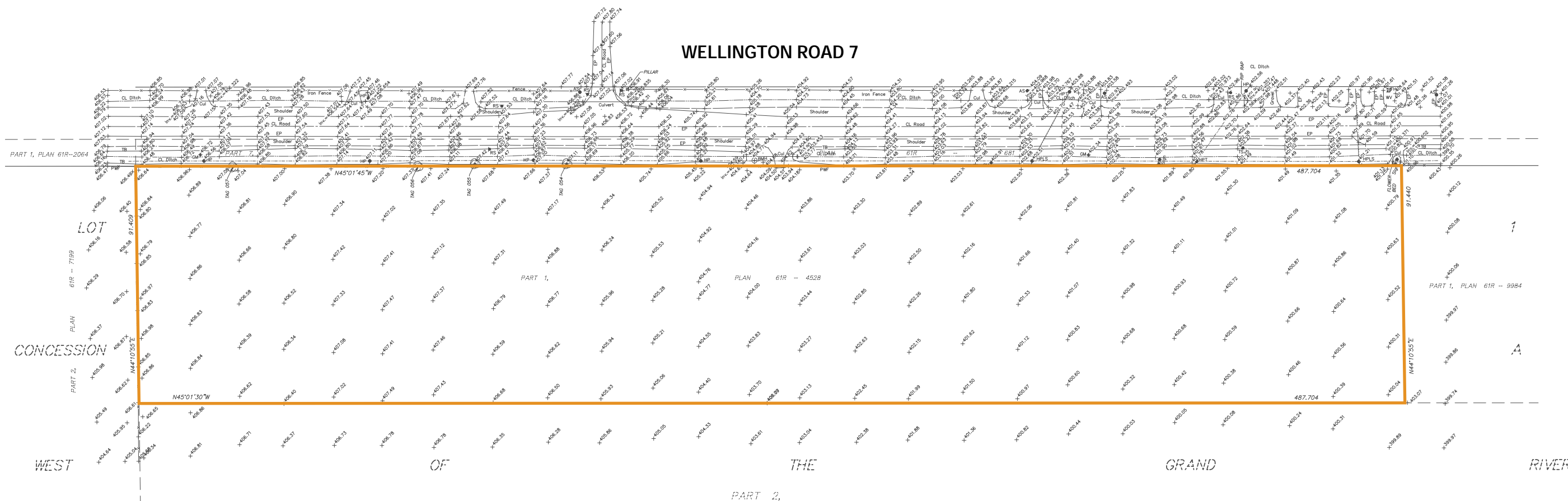
AS INDICATED

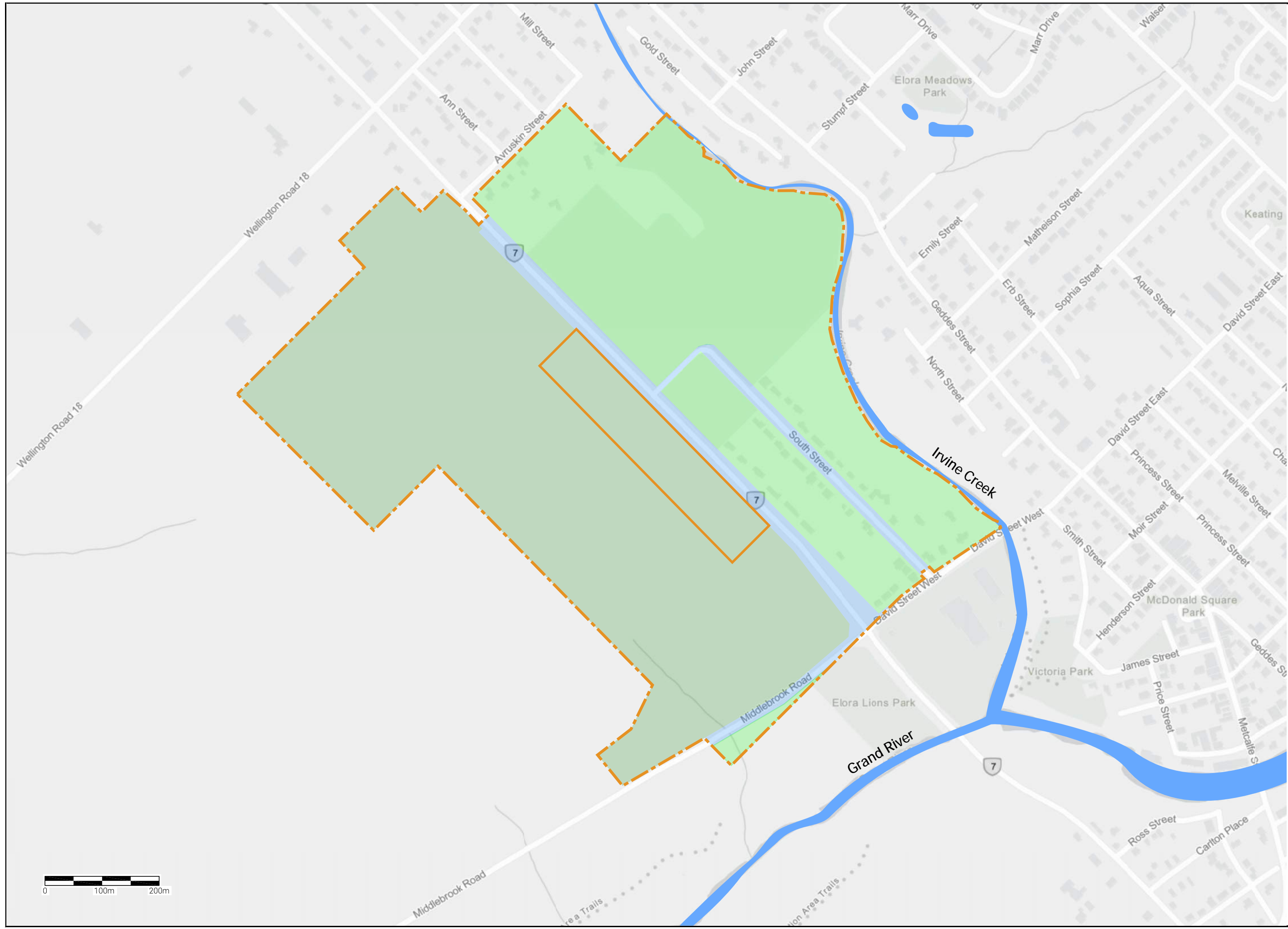
Job No

22-084

Figure No

FIGURE 2





GROUND
ENGINEERING

1 BANIGAN DRIVE, TORONTO, ONT., M4H 1G3
www.groundedeng.ca

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- STUDY AREA (250 m)
- AGRICULTURAL OR OTHER LAND USE
- COMMUNITY LAND USE (INCLUDING ROADWAYS)
- RESIDENTIAL, PARKLAND, AND INSTITUTIONAL LAND USE
- REGULATED WATERBODIES

Note

Reference

ArcGIS Online Map 2022

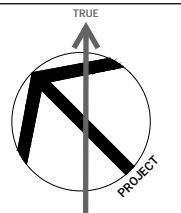
Project

**350 WELLINGTON
ROAD 7
ELORA, ONTARIO**

Figure Title

**PHASE ONE STUDY
AREA**

North



Date

JUNE 2022

Scale

AS INDICATED

Job No

22-084

Figure No

FIGURE 3



GROUND
ENGINEERING

1 BANIGAN DRIVE, TORONTO, ONT., M4H 1G3
www.groundedeng.ca

LEGEND

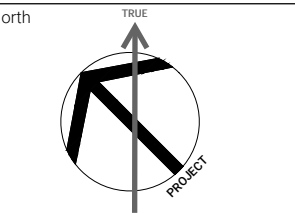
- APPROXIMATE PROPERTY BOUNDARY
- STUDY AREA (250 m)
- REGULATED WATERBODIES

Note
 GREEN - PCA NOT CAUSING APEC
 RED - PCA CAUSING APEC

Reference
 ArcGIS Online Map 2022

Project
**350 WELLINGTON
 ROAD 7
 ELORA, ONTARIO**

Figure Title
PCA LOCATION PLAN



Date
 JUNE 2022

Scale
 AS INDICATED

Job No
 22-084

Figure No
FIGURE 4

Table 1



**TABLE 1:
TABLE OF CURRENT AND PAST USES OF THE PHASE ONE PROPERTY
(Refer to clause 16(2)(b), Schedule D, O. Reg. 153/04)**

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
2021 to present	Radaja Inc.	Vacant, most likely used as agricultural land	Agriculture or Other	2021 AP - No significant changes
2000 to 2021	Jefferson Land Investments Inc.			2019 AP - No significant changes 2016 AP - No significant change 2012 AP - No significant changes 2009 AP - No significant changes 2006 AP - No significant changes
1989 to 2000	Disapio-Bolger Homes Limited			2000 AP - No significant changes
1977 to 1989	Seekers Investments Inc. (Formerly Mardale Transport Limited)			No other observations
1976 to 1977	Grandland Limited			No other observations
1953 to 1976	George Maitland			No other observations
1931 to 1953	Harold Stark			No other observations
1915 to 1931	Jemina Allan			1930 AP - Property is vacant, likely being used as agricultural land
1867 to 1915	Grace Allan			No other observations
1862 to 1867	John Macdonald			No other observations
1842 to 1862	Edward Tylee			No other observations
1799 to 1842	Robert Pilkington			No other observations
1798 to 1799	William Wallace			No other observations
Prior to 1798	Crown			No other observations

Notes:

SI is satellite imagery

AP is aerial photograph

CD is city directory

FIP is fire insurance plan

HM is Historic Map

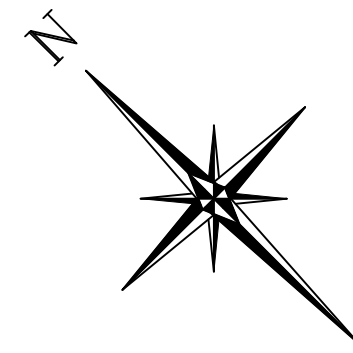
OBM is Ontario Base Map

For each owner, specify one of the following types of Property Use (as defined in O.Reg. 153/04) that applies:

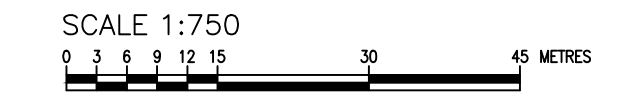
Agriculture or Other, Commercial, Community, Industrial, Institutional, Parkland, Residential

APPENDIX A





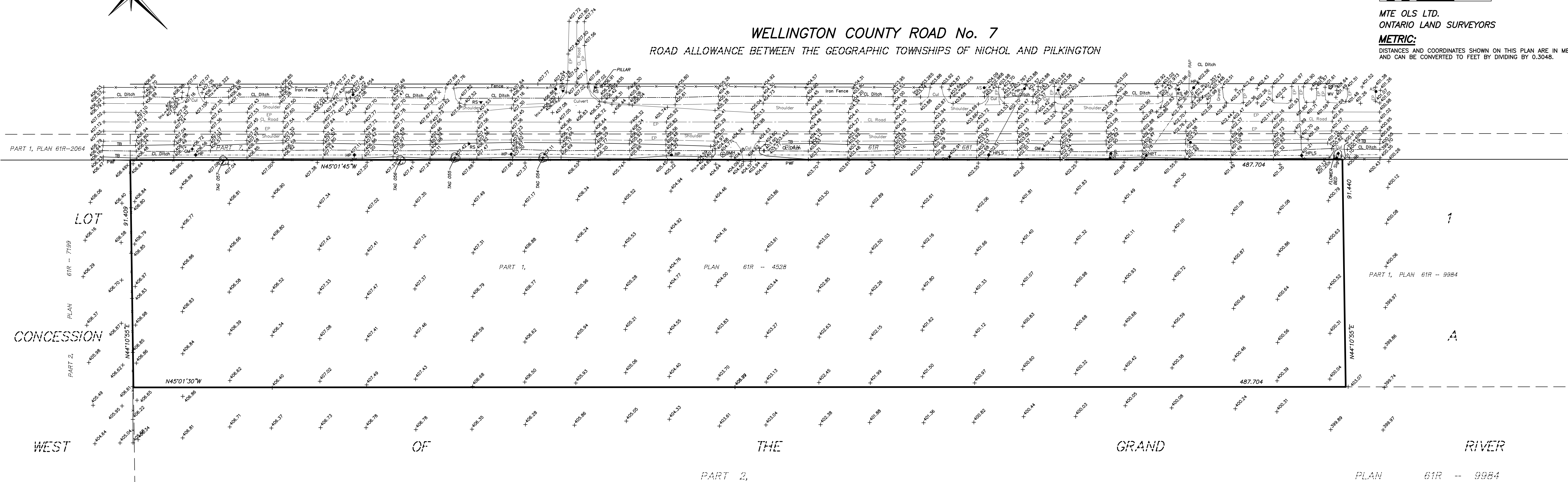
TOPOGRAPHIC SURVEY
 OF PART OF
LOT 1
CONCESSIONS 'A', WEST OF THE GRAND RIVER
 (GEOGRAPHIC TOWNSHIP OF PILKINGTON)
 NOW IN THE
TOWNSHIP OF CENTRE WELLINGTON
COUNTY OF WELLINGTON



MTE OLS LTD.
ONTARIO LAND SURVEYORS

METRIC:
 DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES
 AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

WELLINGTON COUNTY ROAD No. 7
 ROAD ALLOWANCE BETWEEN THE GEOGRAPHIC TOWNSHIPS OF NICHOL AND PILKINGTON



- LEGEND**
- T/G DENOTES TOP OF GRATE
 - PWF DENOTES POST AND WIRE FENCE
 - IF DENOTES IRON FENCE
 - TB DENOTES TOP OF BANK
 - EP DENOTES EDGE OF PAVEMENT
 - CL DENOTES CENTRELINE
 - BMH DENOTES BELL MANHOLE
 - FH DENOTES FIRE HYDRANT
 - WW DENOTES WATER VALVE
 - GM DENOTES GAS PIPELINE MARKER / TEST BOX
 - P DENOTES PILLAR
 - HP DENOTES HYDRO POLE
 - HPT DENOTES HYDRO POLE WITH TRANSFORMER
 - LS DENOTES LIGHT STANDARD
 - RS DENOTES TRAFFIC SIGN
 - CUL DENOTES CULVERT
 - ← DENOTES GUY
 - ⊕ DENOTES BENCH MARK
 - ⊙ DENOTES CONIFEROUS TREE
 - ⊘ DENOTES DECIDUOUS TREE
 - X 533.33 DENOTES EXISTING ELEVATION

MTE MTE ONTARIO LAND SURVEYORS LTD.
 520 BINGEMANS CENTRE DRIVE
 KITCHENER, ONTARIO, N2B 3X9
 TEL: (519) 743-6500

APPENDIX B





enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:
Stephanie

Site Address:

350 Wellington Road 7 Centre Wellington ON

Project No:

22041800252

Opta Order ID:

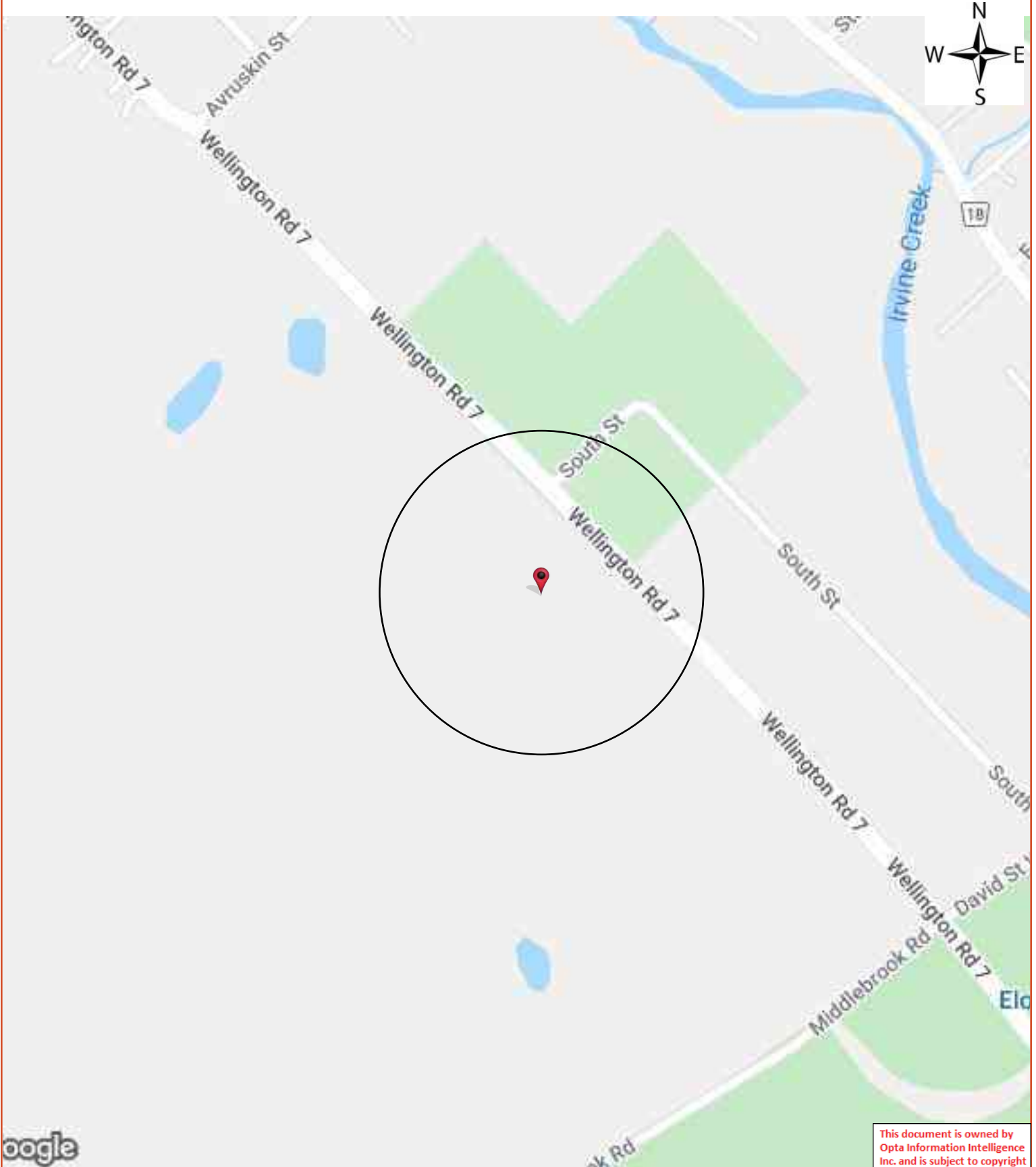
108119

Requested by:

**Eleanor Goolab
Ecolog Eris**

Date Completed:

4/27/2022 9:23:56 AM



Opta Historical Environmental Services EnviroscanTM Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

Page: 4
Project Name: 350 Wellington
Road 7

Project #: 22041800252
P.O. #: 22084

ENVIROSCAN Report

No Records Found

Requested by:
Eleanor Goolab

Date Completed: 04/27/2022 09:23:56



OPTA INFORMATION INTELLIGENCE

No Records Found

This document is owned by
Opta Information Intelligence
Inc. and is subject to copyright
protection. Please see the
full Terms and Conditions at
the front of this document.



APPENDIX C



CHAIN OF TITLE REPORT

Project #: 22041800252
 Address: 350 Wellington Road 7, Centre Wellington
 Legal: Part Lot 1 Con A WGR Pilkington
 Description: Part 1 61R-4528

Searched at: Guelph
 LRO #: 61

Page 1

PIN #: 71426-0047 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent	05 02 1798	Crown	William WALLACE
17	Deed	21 01 1799	William Wallace	Robert PILKINGTON
511	Will	09 05 1842	Robert Pilkington - Estate	Edward TYLEE
17453	Deed	29 01 1862	Edward Tylee	John MacDONALD
209	Deed	19 12 1867	John MacDonald	Grace ALLAN
5724	Deed	14 08 1915	Grace Allan - Estate	Jemina ALLAN
6889	Deed	20 08 1931	Jemina Allan	Harold STARK
8269	Deed	11 01 1953	Harold Stark	George MAITLAND
167637	Deed	30 01 1976	George Maitland	Grandland Limited

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project #: 22041800252
 Address: 350 Wellington Road 7, Centre Wellington
 Legal: Part Lot 1 Con A WGR Pilkington
 Description: Part 1 61R-4528

Searched at: Guelph
 LRO #: 61

Page 2

PIN #: 71426-0047 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
184901	Deed	21 04 1977	Grandland Limited	Mardale Transport Limited
595184	Deed	03 04 1989	Seekers Investments Inc. (Formerly Mardale Transport Limited)	Disapio-Bolger Homes Limited
595185	Mortgage	03 04 1989	Disapio-Bolger Homes Limited	Seekers Investments Inc. (Mortgagee)
709214	Assign's Mtg	03 03 1994	Seekers Investments Inc.	Hasmig JANDU
RO815850	Deed (Power of Sale)	18 07 2000	Hasmig Jandu (Disapio-Bolger Homes Limited defaulted in Mtg)	Jefferson Land Investments Ltd.
WC627950	Deed (Present Owner)	19 03 2021	Jefferson Land Investments Ltd.	Radaja Inc.

PROPERTY DESCRIPTION: PT LT 1 CON A WGR PILKINGTON PART 1 , 61R4528; CENTRE WELLINGTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
RE-ENTRY FROM 71426-0117

PIN CREATION DATE:
2000/10/23

OWNERS' NAMES
RADAJA INC.

CAPACITY SHARE
ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2000/10/20 **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *						
** AND ESCHEATS OR FORFEITURE TO THE CROWN.						
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF						
** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY						
** CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 2000/10/23 **						
MS62401	1967/02/27	BYLAW				C
61R1218	1976/01/07	PLAN REFERENCE				C
61R4528	1989/01/25	PLAN REFERENCE				C
RO815850	2000/07/18	TRANSFER		*** DELETED AGAINST THIS PROPERTY *** JANDU, HASMIG	JEFFERSON LAND INVESTMENTS LTD.	
REMARKS: RE: ROS595185						
RO815851	2000/07/18	CHARGE		*** DELETED AGAINST THIS PROPERTY *** JEFFERSON LAND INVESTMENTS LTD.	JANDU, HASMIG	
WC10917	2002/11/12	CHARGE		*** COMPLETELY DELETED *** JEFFERSON LAND INVESTMENTS LTD.	GENERAL MOTORS ACCEPTANCE CORPORATION OF CANADA, LIMITED	
WC217680	2008/07/23	CHARGE		*** COMPLETELY DELETED *** JEFFERSON LAND INVESTMENTS LTD.	ROYAL BANK OF CANADA	

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
REGISTRY
OFFICE #61

71426-0047 (LT)

PREPARED FOR bertucci
ON 2022/07/06 AT 20:07:37

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
WC305664	2011/03/18	DISCH OF CHARGE		*** COMPLETELY DELETED *** JANDU, HASMIG		
		REMARKS: R0815851.				
WC325057	2011/10/11	APL CH NAME INST		*** COMPLETELY DELETED *** GENERAL MOTORS ACCEPTANCE CORPORATION OF CANADA, LIMITED	ALLY CREDIT CANADA LIMITED	
		REMARKS: WC10917.				
WC327333	2011/11/02	DISCH OF CHARGE		*** COMPLETELY DELETED *** ALLY CREDIT CANADA LIMITED		
		REMARKS: WC10917.				
WC328947	2011/11/22	DISCH OF CHARGE		*** COMPLETELY DELETED *** ROYAL BANK OF CANADA		
		REMARKS: WC217680.				
WC334141	2012/01/25	CHARGE		*** COMPLETELY DELETED *** JEFFERSON LAND INVESTMENTS LTD.	L & M FOOD MARKET (ONTARIO) LIMITED	
WC405210	2014/06/13	LIEN		*** COMPLETELY DELETED *** HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF NATIONAL REVENUE		
		REMARKS: TAX LIEN				
WC405211	2014/06/13	LIEN		*** COMPLETELY DELETED *** HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF NATIONAL REVENUE		
		REMARKS: TAX LIEN				
WC517257	2017/09/19	DISCHARGE INTEREST		*** COMPLETELY DELETED *** HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF NATIONAL REVENUE		
		REMARKS: WC405210.				
WC572189	2019/07/05	CERTIFICATE		*** COMPLETELY DELETED *** THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON		
		REMARKS: TAX ARREARS				
WC590281	2020/01/17	APL (GENERAL)		*** COMPLETELY DELETED *** THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON		
		REMARKS: WC572189				
WC627937	2021/03/19	DISCH OF CHARGE		*** COMPLETELY DELETED ***		

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
 REGISTRY
 OFFICE #61

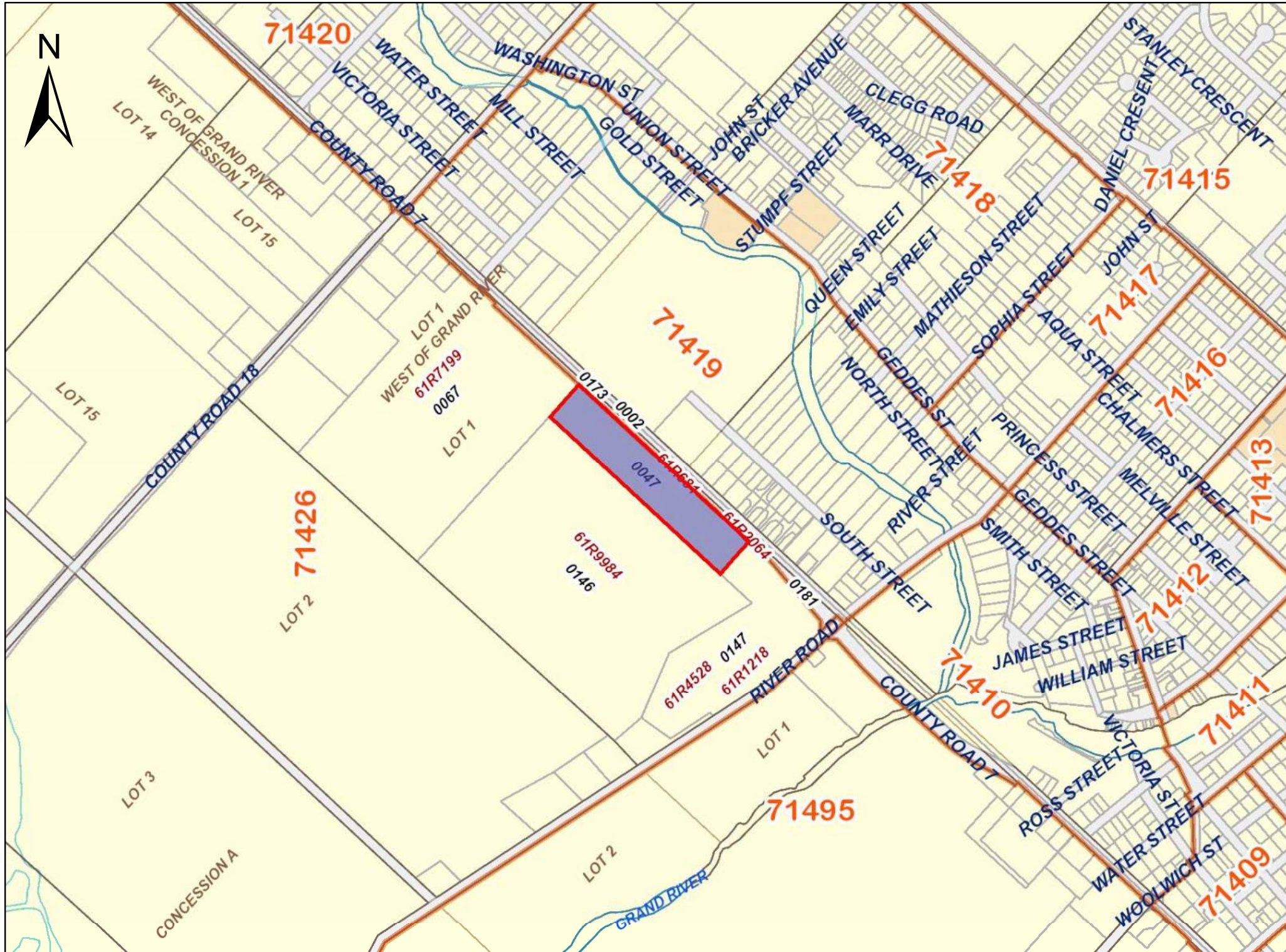
71426-0047 (LT)

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

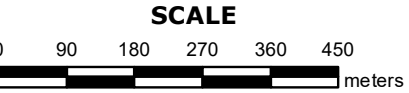
REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
				L & M FOOD MARKET (ONTARIO) LIMITED		
WC627950	2021/03/19	TRANSFER	\$725,000	JEFFERSON LAND INVESTMENTS LTD.	RADAJA INC.	C
WC628464	2021/03/25	DISCHARGE INTEREST		*** COMPLETELY DELETED *** HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF NATIONAL REVENUE		

REMARKS: WC334141.

REMARKS: WC405211.



PRINTED ON 06 JUL, 2022 AT 20:08:22
FOR BERTUCCI



PROPERTY INDEX MAP
WELLINGTON(No. 61)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



APPENDIX D



ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



CITY
DIRECTORY

Project Property: *350 Wellington Road 7, Centre Wellington, ON*
Report Type: *City Directory*
Order No: *22041800252*
Information Source: *No Source*
Date Completed: *April 20, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

City Directory Information Source
No Source

PROJECT NUMBER: 22041800252	
Site Address:	350 Wellington Road 7, Centre Wellington, ON
Year:	
Site Listing:	-Address Not Listed
Adjacent Properties:	
321 Wellington Road 7	-Address Not Listed
343 Wellington Road 7	-Address Not Listed
347 Wellington Road 7	-Address Not Listed
348 352 Wellington Road 7	-Address Not Listed
352 Wellington Road 7	-Address Not Listed

-All listings for businesses were listed as they are in the city directory.

-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory.



***** Centre Wellington, ON is not listed within the city directory archives*****

APPENDIX E





DATABASE REPORT

Project Property: *350 Wellington Road 7
350 Wellington Road 7
Centre Wellington ON N0B 1S0*

Project No: *22-084*

Report Type: *RSC Report - Quote*

Order No: *22041800252*

Requested by: *Grounded Engineering Inc.*

Date Completed: *April 21, 2022*

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	6
Executive Summary: Site Report Summary - Surrounding Properties.....	7
Executive Summary: Summary By Data Source.....	9
Map.....	11
Aerial.....	12
Topographic Map.....	13
Detail Report.....	14
Unplottable Summary.....	80
Unplottable Report.....	81
Appendix: Database Descriptions.....	85
Definitions.....	94

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Limited Partnership ("ERIS") using various sources of information, including information provided by Federal and Provincial government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report (s) are protected by copyright owned by ERIS Information Limited Partnership. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property: 350 Wellington Road 7
350 Wellington Road 7 Centre Wellington ON N0B 1S0

Project No: 22-084

Order Information:

Order No: 22041800252
Date Requested: April 18, 2022
Requested by: Grounded Engineering Inc.
Report Type: RSC Report - Quote

Historical/Products:

Aerial Photographs Aerials - National Collection
City Directory Search CD - Subject Site plus 5 Adjacent Properties
ERIS Xplorer ERIS Xplorer
Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans
Land Title Search Historical Land Title Search
Topographic Map RSC Maps

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.30km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	0	0
CA	<i>Certificates of Approval</i>	Y	0	0	0
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	0	0
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	0	0
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	1	1
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	18	18
Total:			0	19	19

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
--------------------	-----------	--------------------------	----------------	---------------------	--------------------------	------------------------

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	WWIS		lot 17 con 11 ON Well ID: 6701872	NNE/66.9	-1.00	14
2	WWIS		lot 17 con 11 ON Well ID: 6701871	N/111.2	-0.31	16
3	WWIS		lot 1 con A ON Well ID: 6712514	W/126.0	1.00	19
4	WWIS		330 SOUTH STREET lot 18 con 11 ELORA ON Well ID: 6715935	E/131.8	-0.56	22
5	WWIS		310 SOUTH ST ELORA lot 18 con 11 ELORA ON Well ID: 7241517	E/133.6	-7.96	24
6	WWIS		lot 18 con 11 ON Well ID: 6706709	ESE/142.9	-5.27	26
7	WWIS		lot 18 con 11 ON Well ID: 6701892	ESE/158.3	-6.76	30
8	WWIS		lot 18 con 11 ON Well ID: 6708670	ENE/162.1	-2.16	33
9	SCT	PEE GEES DESIGN	333 SOUTH ST ELORA ON NOB 1S0	E/164.0	-4.36	36
10	WWIS		lot 18 con 11 ON Well ID: 6709466	E/171.2	-12.84	36
11	WWIS		347 SOUTYH ST. ELORA ON Well ID: 7219971	ENE/174.1	-5.64	40
12	WWIS		lot 18 con 11 ON	ENE/179.7	-2.86	46

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 6706128			
<u>13</u>	WWIS		lot 1 con A ON Well ID: 6711530	SSE/197.1	-9.25	<u>49</u>
<u>14</u>	WWIS		94 WOOLWICH ST lot 1 con A ON Well ID: 7336266	W/200.3	0.00	<u>52</u>
<u>15</u>	WWIS		0441 WELLINGTON RD 7 lot 16 con 11 SALEM ON Well ID: 6715843	NNW/238.5	-0.73	<u>53</u>
<u>16</u>	WWIS		34 DAVID STREET WEST lot 19 con 11 ELORA ON Well ID: 7175016	ESE/252.3	-12.49	<u>61</u>
<u>17</u>	WWIS		7463 MIDDLEBROOK RD. ELORA ON Well ID: 7105392	SE/269.5	-18.70	<u>63</u>
<u>18</u>	WWIS		0485 AVRUSILIN ST lot 16 con 11 SALEM ON Well ID: 6715527	NW/278.4	0.31	<u>67</u>
<u>19</u>	WWIS		lot 16 con 11 ON Well ID: 6713903	NW/291.3	0.31	<u>74</u>

Executive Summary: Summary By Data Source

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 1 SCT site(s) within approximately 0.30 kilometers of the project property.

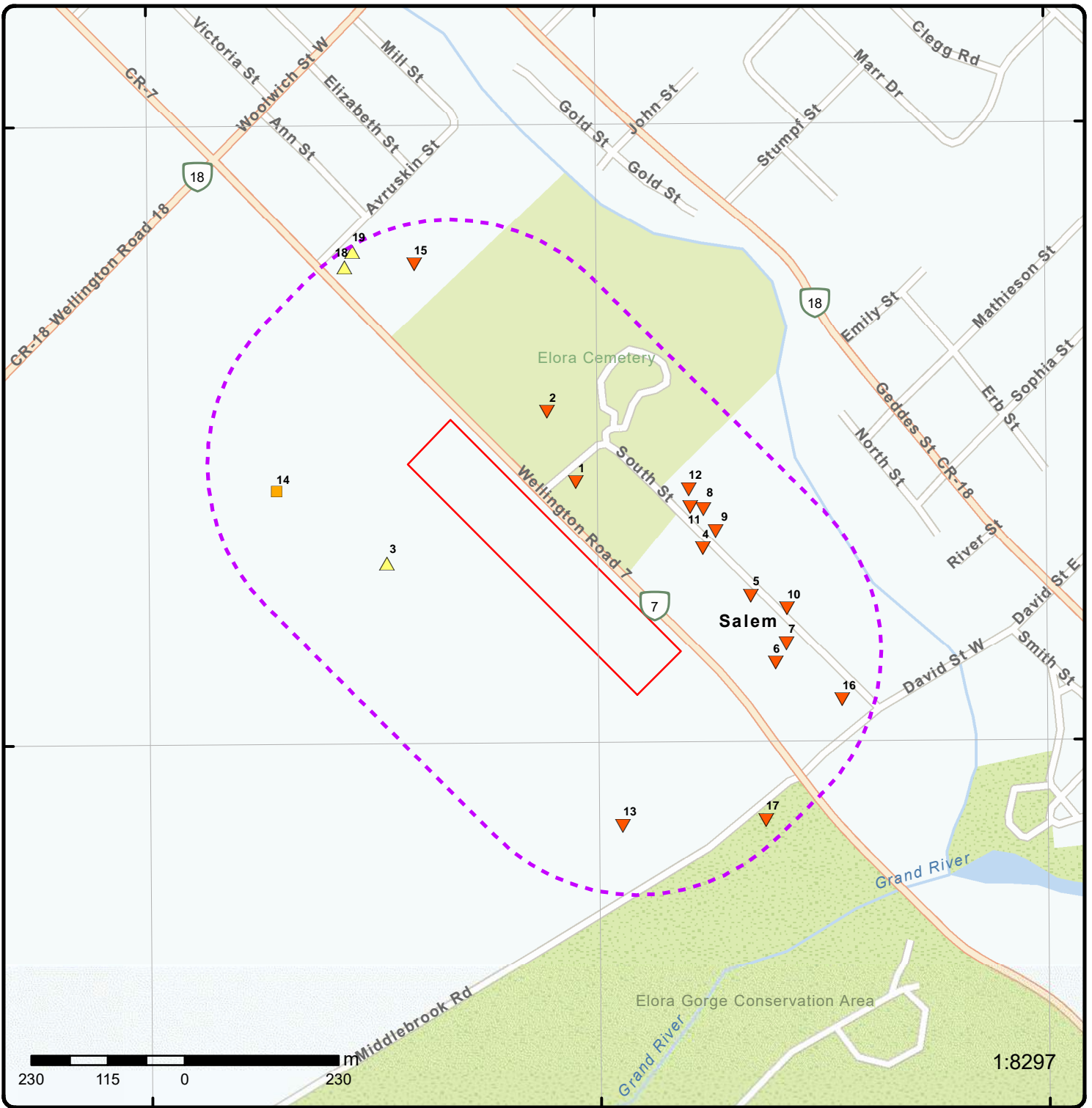
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
PEE GEES DESIGN	333 SOUTH ST ELORA ON N0B 1S0	164.0	<u>9</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Sep 30, 2021 has found that there are 18 WWIS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 17 con 11 ON <i>Well ID:</i> 6701872	66.9	<u>1</u>
	lot 17 con 11 ON <i>Well ID:</i> 6701871	111.2	<u>2</u>
	lot 1 con A ON <i>Well ID:</i> 6712514	126.0	<u>3</u>
	330 SOUTH STREET lot 18 con 11 ELORA ON <i>Well ID:</i> 6715935	131.8	<u>4</u>
	310 SOUTH ST ELORA lot 18 con 11 ELORA ON <i>Well ID:</i> 7241517	133.6	<u>5</u>
	lot 18 con 11 ON <i>Well ID:</i> 6706709	142.9	<u>6</u>
	lot 18 con 11 ON	158.3	<u>7</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 6701892		
	lot 18 con 11 ON	162.1	<u>8</u>
	<i>Well ID:</i> 6708670		
	lot 18 con 11 ON	171.2	<u>10</u>
	<i>Well ID:</i> 6709466		
	347 SOUTYH ST. ELORA ON	174.1	<u>11</u>
	<i>Well ID:</i> 7219971		
	lot 18 con 11 ON	179.7	<u>12</u>
	<i>Well ID:</i> 6706128		
	lot 1 con A ON	197.1	<u>13</u>
	<i>Well ID:</i> 6711530		
	94 WOOLWICH ST lot 1 con A ON	200.3	<u>14</u>
	<i>Well ID:</i> 7336266		
	0441 WELLINGTON RD 7 lot 16 con 11 SALEM ON	238.5	<u>15</u>
	<i>Well ID:</i> 6715843		
	34 DAVID STREET WEST lot 19 con 11 ELORA ON	252.3	<u>16</u>
	<i>Well ID:</i> 7175016		
	7463 MIDDLEBROOK RD. ELORA ON	269.5	<u>17</u>
	<i>Well ID:</i> 7105392		
	0485 AVRUSILIN ST lot 16 con 11 SALEM ON	278.4	<u>18</u>
	<i>Well ID:</i> 6715527		
	lot 16 con 11 ON	291.3	<u>19</u>
	<i>Well ID:</i> 6713903		



Map: 0.3 Kilometer Radius

Order Number: 22041800252

Address: 350 Wellington Road 7, Centre Wellington, ON



Project Property	Freeways; Highways	Beach	Shopping & Sports Area
Buffer Outline	Traffic Circle; Ramp	Airport	University/College
Eris Sites with Higher Elevation	Major Arterial; Minor Arterial	Industrial Area	Cemetery; Golf Course
Eris Sites with Same Elevation	Local Road	Military Base	Parkt (National)
Eris Sites with Lower Elevation	Service Road; Traffic Circle; Ramp	Aircraft Roads	Park (City/County)
Eris Sites with Unknown Elevation	Rail	Native Reservation	Hospital



Aerial Year: 2020

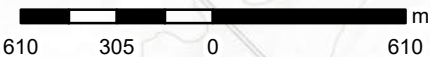
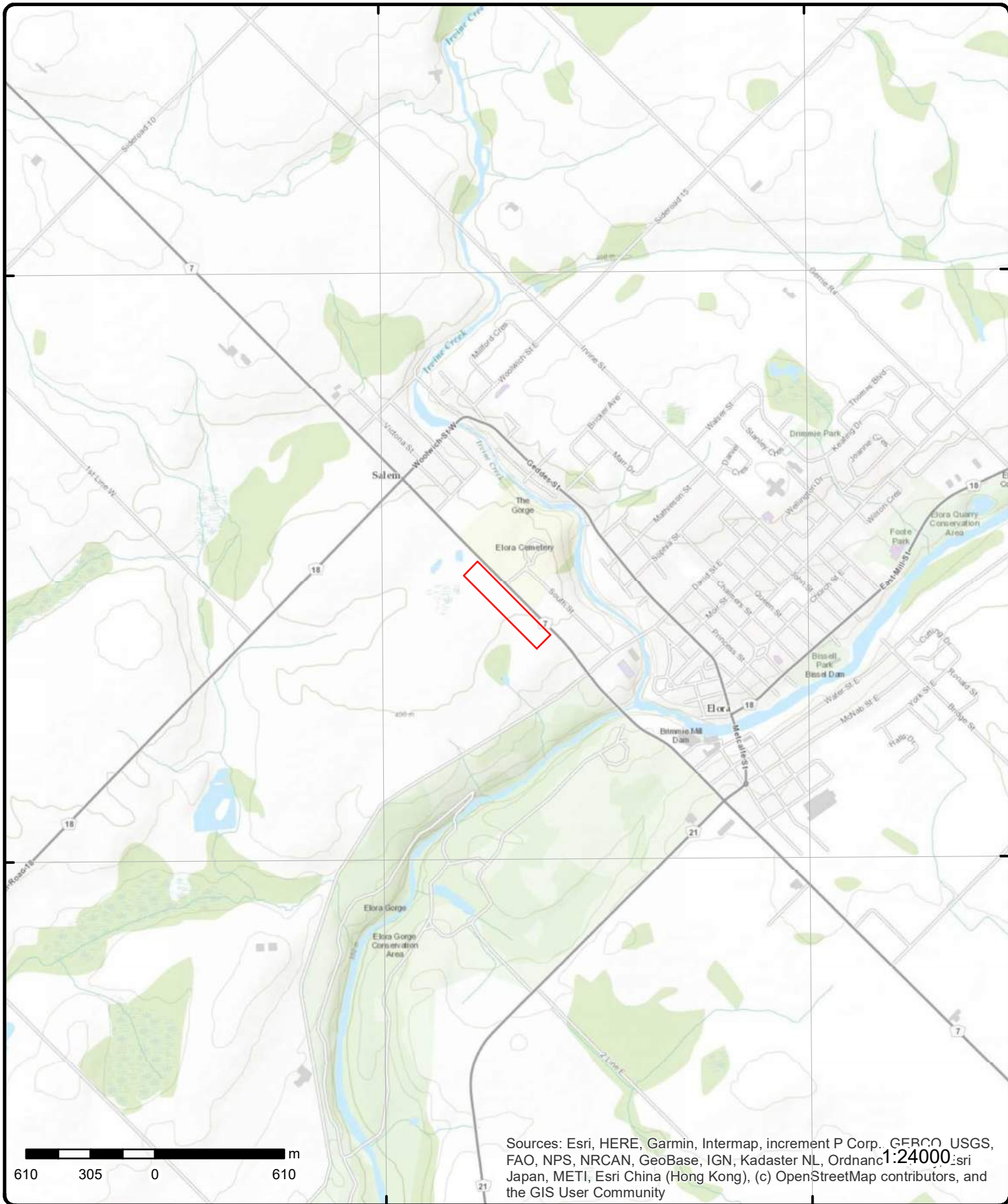
Address: 350 Wellington Road 7, Centre Wellington, ON

Source: ESRI World Imagery

Order Number: 22041800252



© ERIS Information Limited Partnership



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Topographic Map

Order Number: 22041800252

Address: 350 Wellington Road 7, ON



Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	NNE/66.9	403.9 / -1.00	lot 17 con 11 ON	WWIS

Well ID: 6701872
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/28/1966
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1659
Form Version: 1
Owner:
Street Name:
County: WELLINGTON
Municipality: NICHOL TOWNSHIP
Site Info:
Lot: 017
Concession: 11
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6701872.pdf

Additional Detail(s) (Map)

Well Completed Date: 1966/08/19
Year Completed: 1966
Depth (m): 45.72
Latitude: 43.6868397958751
Longitude: -80.4420834117362
Path: 670\6701872.pdf

Bore Hole Information

<p> Bore Hole ID: 10466017 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 19-Aug-1966 00:00:00 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: </p>	<p> Elevation: Elevrc: Zone: 17 East83: 544965.10 North83: 4837243.00 Org CS: UTMRC: 5 UTMRC Desc: margin of error : 100 m - 300 m Location Method: p5 </p>
---	--

Overburden and Bedrock

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Materials Interval</u>					
Formation ID:		932611003			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		5.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932611004			
Layer:		2			
Color:		1			
General Color:		WHITE			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		5.0			
Formation End Depth:		150.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966701872			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11014587			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930757779			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930757780			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		150.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Results of Well Yield Testing

Pump Test ID:	996701872
Pump Set At:	
Static Level:	42.0
Final Level After Pumping:	90.0
Recommended Pump Depth:	90.0
Pumping Rate:	4.0
Flowing Rate:	
Recommended Pump Rate:	4.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933954160
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	150.0
Water Found Depth UOM:	ft

2	1 of 1	N/111.2	404.5 / -0.31	lot 17 con 11 ON	WWIS
-------------------	--------	---------	---------------	---------------------	------

Well ID:	6701871	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	6/16/1964
Sec. Water Use:	0	Selected Flag:	TRUE
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1659
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	NICHOL TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	017
Well Depth:		Concession:	11
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6701871.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
---------	-------------------	----------------------------	------------------	------	----

Additional Detail(s) (Map)

Well Completed Date: 1964/05/06
Year Completed: 1964
Depth (m): 39.0144
Latitude: 43.6877967778661
Longitude: -80.4426080833067
Path: 670\6701871.pdf

Bore Hole Information

Bore Hole ID:	10466016	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	544922.10
Code OB Desc:		North83:	4837349.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	06-May-1964 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 932611001
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 09
Mat2 Desc: MEDIUM SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932611002
Layer: 2
Color: 1
General Color: WHITE
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 11.0
Formation End Depth: 128.0
Formation End Depth UOM: ft

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966701871			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11014586			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930757778			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		128.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930757777			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		15.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996701871			
Pump Set At:					
Static Level:		45.0			
Final Level After Pumping:		70.0			
Recommended Pump Depth:		70.0			
Pumping Rate:		4.0			
Flowing Rate:					
Recommended Pump Rate:		4.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933954159			
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	128.0				
Water Found Depth UOM:	ft				

<u>3</u>	1 of 1	W/126.0	405.9 / 1.00	lot 1 con A ON	WWIS
----------	--------	---------	--------------	-------------------	------

Well ID:	6712514	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	5/4/1998
Sec. Water Use:		Selected Flag:	TRUE
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	6634
Casing Material:		Form Version:	1
Audit No:	185575	Owner:	
Tag:		Street Name:	
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	PILKINGTON TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	001
Well Depth:		Concession:	A
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/671\6712514.pdf

Additional Detail(s) (Map)

Well Completed Date:	1998/04/07
Year Completed:	1998
Depth (m):	71.3232
Latitude:	43.6857674162973
Longitude:	-80.4455984781736
Path:	671\6712514.pdf

Bore Hole Information

Bore Hole ID:	10476347	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	544682.60
Code OB Desc:		North83:	4837122.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	07-Apr-1998 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID:	932657531
----------------------	-----------

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		3			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		73			
Mat2 Desc:		HARD			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		55.0			
Formation End Depth:		234.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932657530			
Layer:		2			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		2.0			
Formation End Depth:		55.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932657529			
Layer:		1			
Color:					
General Color:					
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		2.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		966712514			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11024917			
Casing No:		1			
Comment:					
Alt Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:			930776037		
Layer:			1		
Material:			1		
Open Hole or Material:			STEEL		
Depth From:					
Depth To:			57.0		
Casing Diameter:			6.0		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Construction Record - Casing</u>					
Casing ID:			930776038		
Layer:			2		
Material:			4		
Open Hole or Material:			OPEN HOLE		
Depth From:					
Depth To:			234.0		
Casing Diameter:					
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Results of Well Yield Testing</u>					
Pump Test ID:			996712514		
Pump Set At:					
Static Level:			54.0		
Final Level After Pumping:			125.0		
Recommended Pump Depth:			150.0		
Pumping Rate:			6.0		
Flowing Rate:					
Recommended Pump Rate:			5.0		
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			1		
Water State After Test:			CLEAR		
Pumping Test Method:			1		
Pumping Duration HR:			1		
Pumping Duration MIN:			30		
Flowing:			No		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			935138919		
Test Type:			Recovery		
Test Duration:			60		
Test Level:			54.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934616859		
Test Type:			Recovery		
Test Duration:			30		
Test Level:			54.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934352273		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Type:		Recovery			
Test Duration:		15			
Test Level:		54.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934869109			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		54.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933966905			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		234.0			
Water Found Depth UOM:		ft			

4	1 of 1	E/131.8	404.3 / -0.56	330 SOUTH STREET lot 18 con 11 ELORA ON	WWIS
Well ID:		6715935		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:				Date Received:	
Sec. Water Use:				10/17/2006	
Final Well Status:		Abandoned-Other		Selected Flag:	
Water Type:				TRUE	
Casing Material:				Abandonment Rec:	
Audit No:		Z38462		Yes	
Tag:				Contractor:	
Construction Method:				6865	
Elevation (m):				Form Version:	
Elevation Reliability:				3	
Depth to Bedrock:				Owner:	
Well Depth:				Street Name:	
Overburden/Bedrock:				330 SOUTH STREET	
Pump Rate:				County:	
Static Water Level:				WELLINGTON	
Flowing (Y/N):				Municipality:	
Flow Rate:				NICHOL TOWNSHIP	
Clear/Cloudy:				Site Info:	
				Lot:	
				018	
				Concession:	
				11	
				Concession Name:	
				Easting NAD83:	
				Northing NAD83:	
				Zone:	
				UTM Reliability:	

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/671\6715935.pdf

Additional Detail(s) (Map)

Well Completed Date: 2006/09/14
Year Completed: 2006
Depth (m):
Latitude: 43.6859369176452
Longitude: -80.4397355835617
Path: 671\6715935.pdf

Bore Hole Information

Bore Hole ID: 11695717
DP2BR:
Spatial Status:
Elevation:
Elevrc:
Zone: 17

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB:				East83:	545155.00
Code OB Desc:				North83:	4837144.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	3
Date Completed:	14-Sep-2006 00:00:00			UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933308083			
Layer:		4			
Plug From:		12.0			
Plug To:		18.0			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933308082			
Layer:		3			
Plug From:		7.0			
Plug To:		12.0			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933308081			
Layer:		2			
Plug From:		1.0			
Plug To:		7.0			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933308080			
Layer:		1			
Plug From:		0.0			
Plug To:		1.0			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966715935			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11700583			
Casing No:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Comment: Alt Name:					

5	1 of 1	E/133.6	396.9 / -7.96	310 SOUTH ST ELORA lot 18 con 11 ELORA ON	WWIS
-------------------	--------	---------	---------------	--	------

Well ID:	7241517	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Domestic	Date Received:	5/20/2015
Sec. Water Use:		Selected Flag:	TRUE
Final Well Status:	Abandoned-Other	Abandonment Rec:	Yes
Water Type:		Contractor:	7557
Casing Material:		Form Version:	7
Audit No:	Z192259	Owner:	
Tag:		Street Name:	310 SOUTH ST ELORA
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	NICHOL TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	018
Well Depth:		Concession:	11
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/724\7241517.pdf

Additional Detail(s) (Map)

Well Completed Date: 2015/04/21
Year Completed: 2015
Depth (m):
Latitude: 43.6852932818786
Longitude: -80.4388482389681
Path: 724\7241517.pdf

Bore Hole Information

Bore Hole ID:	1005366085	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	545227.00
Code OB Desc:		North83:	4837073.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	21-Apr-2015 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Annular Space/Abandonment
Sealing Record**

Plug ID: 1005615207
Layer: 2
Plug From: 115.0

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To:		3.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005615206			
Layer:		1			
Plug From:		155.0			
Plug To:		115.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005615205			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005615198			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1005615202			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1005615203			
Layer:		1			
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1005615201			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Hole Diameter</u>					
Hole ID:		1005615200			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

<u>6</u>	1 of 1	ESE/142.9	399.6 / -5.27	lot 18 con 11 ON	WWIS
----------	--------	-----------	---------------	---------------------	------

Well ID:	6706709	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	6/19/1978
Sec. Water Use:	0	Selected Flag:	TRUE
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	4856
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	NICHOL TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	018
Well Depth:		Concession:	11
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6706709.pdf

Additional Detail(s) (Map)

Well Completed Date:	1978/04/02
Year Completed:	1978
Depth (m):	65.532
Latitude:	43.684390663769
Longitude:	-80.4383963441145
Path:	670\6706709.pdf

Bore Hole Information

Bore Hole ID:	10470781	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	545264.10
Code OB Desc:		North83:	4836973.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	02-Apr-1978 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932632146		
Layer:			8		
Color:			3		
General Color:			BLUE		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			199.0		
Formation End Depth:			215.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932632144		
Layer:			6		
Color:			6		
General Color:			BROWN		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:			73		
Mat2 Desc:			HARD		
Mat3:					
Mat3 Desc:					
Formation Top Depth:			126.0		
Formation End Depth:			155.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932632141		
Layer:			3		
Color:			2		
General Color:			GREY		
Mat1:			14		
Most Common Material:			HARDPAN		
Mat2:			13		
Mat2 Desc:			BOULDERS		
Mat3:					
Mat3 Desc:					
Formation Top Depth:			19.0		
Formation End Depth:			54.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932632140		
Layer:			2		
Color:			6		
General Color:			BROWN		
Mat1:			28		
Most Common Material:			SAND		
Mat2:					
Mat2 Desc:					
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:			1.0		
Formation End Depth:			19.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932632142		
Layer:			4		
Color:			1		
General Color:			WHITE		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:			17		
Mat2 Desc:			SHALE		
Mat3:			74		
Mat3 Desc:			LAYERED		
Formation Top Depth:			54.0		
Formation End Depth:			86.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932632145		
Layer:			7		
Color:			1		
General Color:			WHITE		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			155.0		
Formation End Depth:			199.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932632139		
Layer:			1		
Color:			8		
General Color:			BLACK		
Mat1:			02		
Most Common Material:			TOPSOIL		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			0.0		
Formation End Depth:			1.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932632143		
Layer:			5		
Color:			2		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		73			
Mat2 Desc:		HARD			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		86.0			
Formation End Depth:		126.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966706709			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11019351			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930766047			
Layer:		1			
Material:					
Open Hole or Material:					
Depth From:					
Depth To:		56.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930766048			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		215.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996706709			
Pump Set At:					
Static Level:					
Final Level After Pumping:		115.0			
Recommended Pump Depth:		105.0			
Pumping Rate:		3.0			
Flowing Rate:					
Recommended Pump Rate:		2.0			
Levels UOM:		ft			
Rate UOM:		GPM			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water State After Test Code:	1				
Water State After Test:		CLEAR			
Pumping Test Method:	1				
Pumping Duration HR:	5				
Pumping Duration MIN:	0				
Flowing:	No				
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934344792				
Test Type:		Draw Down			
Test Duration:	15				
Test Level:	115.0				
Test Level UOM:	ft				
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934874375				
Test Type:		Draw Down			
Test Duration:	45				
Test Level:	115.0				
Test Level UOM:	ft				
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:	935131506				
Test Type:		Draw Down			
Test Duration:	60				
Test Level:	115.0				
Test Level UOM:	ft				
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934620456				
Test Type:		Draw Down			
Test Duration:	30				
Test Level:	115.0				
Test Level UOM:	ft				
 <u>Water Details</u>					
Water ID:	933959704				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	92.0				
Water Found Depth UOM:	ft				
 <u>Water Details</u>					
Water ID:	933959705				
Layer:	2				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	140.0				
Water Found Depth UOM:	ft				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	6701892			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	5/18/1965
Sec. Water Use:	0			Selected Flag:	TRUE
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1659
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	NICHOL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	018
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6701892.pdf

Additional Detail(s) (Map)

Well Completed Date: 1965/04/15
Year Completed: 1965
Depth (m): 37.7952
Latitude: 43.6846507919805
Longitude: -80.4381954005389
Path: 670\6701892.pdf

Bore Hole Information

Bore Hole ID:	10466037	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	545280.10
Code OB Desc:		North83:	4837002.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	15-Apr-1965 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 932611053
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation Top Depth:		32.0			
Formation End Depth:		124.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932611052			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		32.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966701892			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11014607			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930757820			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		124.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930757819			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		87.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test ID:		996701892			
Pump Set At:					
Static Level:		30.0			
Final Level After Pumping:		60.0			
Recommended Pump Depth:		60.0			
Pumping Rate:		4.0			
Flowing Rate:					
Recommended Pump Rate:		4.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933954180			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		124.0			
Water Found Depth UOM:		ft			

<u>8</u>	1 of 1	ENE/162.1	402.7 / -2.16	lot 18 con 11 ON	WWIS
----------	--------	-----------	---------------	---------------------	------

Well ID:	6708670	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	3/31/1987
Sec. Water Use:	0	Selected Flag:	TRUE
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	2564
Casing Material:		Form Version:	1
Audit No:	NA	Owner:	
Tag:		Street Name:	
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	NICHOL TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	018
Well Depth:		Concession:	11
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6708670.pdf

Additional Detail(s) (Map)

Well Completed Date:	1986/10/15
Year Completed:	1986
Depth (m):	65.8368
Latitude:	43.6864962884223
Longitude:	-80.4399648823406
Path:	670\6708670.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
----------------	--------------------------	--------------------------------	----------------------	-------------	-----------

Bore Hole Information

Bore Hole ID:	10472560	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	545136.10
Code OB Desc:		North83:	4837206.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	3
Date Completed:	15-Oct-1986 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	gps
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932640340
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	50.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932640341
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	50.0
Formation End Depth:	216.0
Formation End Depth UOM:	ft

Method of Construction & Well

Use

Method Construction ID:	966708670
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Pipe ID:</i>		11021130			
<i>Casing No:</i>		1			
<i>Comment:</i>					
<i>Alt Name:</i>					
 <u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930769158			
<i>Layer:</i>		2			
<i>Material:</i>		4			
<i>Open Hole or Material:</i>		OPEN HOLE			
<i>Depth From:</i>					
<i>Depth To:</i>		216.0			
<i>Casing Diameter:</i>		4.0			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
 <u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930769157			
<i>Layer:</i>		1			
<i>Material:</i>		1			
<i>Open Hole or Material:</i>		STEEL			
<i>Depth From:</i>					
<i>Depth To:</i>		55.0			
<i>Casing Diameter:</i>		4.0			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
 <u>Results of Well Yield Testing</u>					
<i>Pump Test ID:</i>		996708670			
<i>Pump Set At:</i>					
<i>Static Level:</i>		60.0			
<i>Final Level After Pumping:</i>		160.0			
<i>Recommended Pump Depth:</i>		165.0			
<i>Pumping Rate:</i>		7.0			
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>		7.0			
<i>Levels UOM:</i>		ft			
<i>Rate UOM:</i>		GPM			
<i>Water State After Test Code:</i>					
<i>Water State After Test:</i>					
<i>Pumping Test Method:</i>		2			
<i>Pumping Duration HR:</i>		2			
<i>Pumping Duration MIN:</i>		0			
<i>Flowing:</i>		No			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		935136543			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		160.0			
<i>Test Level UOM:</i>		ft			
 <u>Water Details</u>					
<i>Water ID:</i>		933961941			
<i>Layer:</i>		1			
<i>Kind Code:</i>		1			
<i>Kind:</i>		FRESH			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth:		200.0			
Water Found Depth UOM:		ft			
9	1 of 1	E/164.0	400.5 / -4.36	PEE GEES DESIGN 333 SOUTH ST ELORA ON N0B 1S0	SCT
Established:		1993			
Plant Size (ft²):		0			
Employment:		2			
--Details--					
Description:		MEN'S & BOYS' CLOTHING, N.E.C.			
SIC/NAICS Code:		2329			
Description:		WOMEN'S, MISSES', & JUNIORS' OUTERWEAR, N.E.C.			
SIC/NAICS Code:		2339			
Description:		SILVERWARE, PLATED WARE, & STAINLESS STEELWARE			
SIC/NAICS Code:		3914			
10	1 of 1	E/171.2	392.0 / -12.84	lot 18 con 11 ON	WWIS
Well ID:		6709466		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	12/29/1988
Sec. Water Use:		0		Selected Flag:	TRUE
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	1906
Casing Material:				Form Version:	1
Audit No:		19522		Owner:	
Tag:				Street Name:	
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	NICHOL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	018
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6709466.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1988/12/08			
Year Completed:		1988			
Depth (m):		79.248			
Latitude:		43.6851189168797			
Longitude:		-80.4381786242812			
Path:		670\6709466.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10473315		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB:				East83:	545281.10
Code OB Desc:				North83:	4837054.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	3
Date Completed:	08-Dec-1988 00:00:00			UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	gps
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock
Materials Interval

Formation ID: 932643650
 Layer: 4
 Color:
 General Color:
 Mat1: 15
 Most Common Material: LIMESTONE
 Mat2:
 Mat2 Desc:
 Mat3:
 Mat3 Desc:
 Formation Top Depth: 40.0
 Formation End Depth: 140.0
 Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932643649
 Layer: 3
 Color:
 General Color:
 Mat1: 05
 Most Common Material: CLAY
 Mat2: 12
 Mat2 Desc: STONES
 Mat3:
 Mat3 Desc:
 Formation Top Depth: 30.0
 Formation End Depth: 40.0
 Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932643651
 Layer: 5
 Color: 1
 General Color: WHITE
 Mat1: 26
 Most Common Material: ROCK
 Mat2:
 Mat2 Desc:
 Mat3:
 Mat3 Desc:
 Formation Top Depth: 140.0
 Formation End Depth: 260.0
 Formation End Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932643647			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		25.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932643648			
Layer:		2			
Color:					
General Color:					
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		25.0			
Formation End Depth:		30.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966709466			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11021885			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930770533			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		48.0			
Casing Diameter:		5.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:			930770534		
Layer:			2		
Material:			4		
Open Hole or Material:			OPEN HOLE		
Depth From:					
Depth To:			260.0		
Casing Diameter:			5.0		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Results of Well Yield Testing</u>					
Pump Test ID:			996709466		
Pump Set At:					
Static Level:			74.0		
Final Level After Pumping:			200.0		
Recommended Pump Depth:			200.0		
Pumping Rate:			6.0		
Flowing Rate:					
Recommended Pump Rate:			6.0		
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			2		
Water State After Test:			CLOUDY		
Pumping Test Method:			1		
Pumping Duration HR:			10		
Pumping Duration MIN:			0		
Flowing:			No		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			935138686		
Test Type:			Draw Down		
Test Duration:			60		
Test Level:			200.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934870011		
Test Type:			Draw Down		
Test Duration:			45		
Test Level:			200.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934342703		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			200.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934617706		
Test Type:			Draw Down		
Test Duration:			30		
Test Level:			200.0		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:	933962881				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	205.0				
Water Found Depth UOM:	ft				
<u>Water Details</u>					
Water ID:	933962882				
Layer:	2				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	260.0				
Water Found Depth UOM:	ft				

<u>11</u>	1 of 1	ENE/174.1	399.2 / -5.64	347 SOUTYH ST. ELORA ON	WWIS
Well ID:	7219971			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Domestic			Date Received:	5/9/2014
Sec. Water Use:				Selected Flag:	TRUE
Final Well Status:	0			Abandonment Rec:	
Water Type:				Contractor:	7146
Casing Material:				Form Version:	7
Audit No:	Z178959			Owner:	
Tag:	A146942			Street Name:	347 SOUTYH ST.
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	NICHOL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/721\7219971.pdf

Additional Detail(s) (Map)

Well Completed Date: 2014/04/28
Year Completed: 2014
Depth (m): 0.6096
Latitude: 43.6864680677494
Longitude: -80.4397182321909
Path: 721\7219971.pdf

Bore Hole Information

Bore Hole ID: 1004741065
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:

Elevation:
Elevrc:
Zone: 17
East83: 545156.00
North83: 4837203.00

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	28-Apr-2014 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1005152471			
Layer:		1			
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		2.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1005152504			
Layer:		1			
Plug From:		0.0			
Plug To:		5.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1005152503			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005152469			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1005152474			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1005152475			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1005152470			
Pump Set At:		130.0			
Static Level:		72.0			
Final Level After Pumping:		120.0			
Recommended Pump Depth:		130.0			
Pumping Rate:		5.0			
Flowing Rate:					
Recommended Pump Rate:		5.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		0			
Pumping Duration HR:		1			
Pumping Duration MIN:					
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152490			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		120.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152478			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		80.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152480			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		84.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152482			
Test Type:		Draw Down			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Duration:</i>			4		
<i>Test Level:</i>			88.0		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005152476		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			1		
<i>Test Level:</i>			76.0		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005152481		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			3		
<i>Test Level:</i>			105.0		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005152486		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			10		
<i>Test Level:</i>			105.0		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005152491		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			20		
<i>Test Level:</i>			72.0		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005152492		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			25		
<i>Test Level:</i>			120.0		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005152493		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			25		
<i>Test Level:</i>			72.0		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005152485		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			5		
<i>Test Level:</i>			95.0		
<i>Test Level UOM:</i>			ft		

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005152488		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			115.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005152496		
Test Type:			Draw Down		
Test Duration:			40		
Test Level:			120.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005152495		
Test Type:			Recovery		
Test Duration:			30		
Test Level:			72.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005152477		
Test Type:			Recovery		
Test Duration:			1		
Test Level:			115.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005152479		
Test Type:			Recovery		
Test Duration:			2		
Test Level:			110.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005152489		
Test Type:			Recovery		
Test Duration:			15		
Test Level:			75.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005152497		
Test Type:			Recovery		
Test Duration:			40		
Test Level:			72.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005152498		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		120.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152499			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		72.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152484			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		91.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152487			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		85.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152500			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		120.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152501			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		72.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152483			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		100.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005152494			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		120.0			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Water Details</u>					
Water ID:		1005152473			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1005152472			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

12	1 of 1	ENE/179.7	402.0 / -2.86	lot 18 con 11 ON	WWIS
Well ID:	6706128			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	8/9/1976
Sec. Water Use:	0			Selected Flag:	TRUE
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	2564
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	NICHOL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	018
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6706128.pdf				

Additional Detail(s) (Map)

Well Completed Date:	1976/07/08
Year Completed:	1976
Depth (m):	64.008
Latitude:	43.6867395065106
Longitude:	-80.4399874349388
Path:	670\6706128.pdf

Bore Hole Information

Bore Hole ID:	10470208	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	545134.10
Code OB Desc:		North83:	4837233.00
Open Hole:		Org CS:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Cluster Kind:				UTMRC:	5
Date Completed:	08-Jul-1976 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

**Overburden and Bedrock
Materials Interval**

Formation ID: 932629341
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 51.0
Formation End Depth: 210.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932629340
Layer: 2
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2: 60
Mat2 Desc: CEMENTED
Mat3:
Mat3 Desc:
Formation Top Depth: 35.0
Formation End Depth: 51.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932629339
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

Method of Construction & Well

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Use</u>					
Method Construction ID:		966706128			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11018778			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930765129			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		58.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930765130			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		210.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996706128			
Pump Set At:					
Static Level:		80.0			
Final Level After Pumping:		180.0			
Recommended Pump Depth:		100.0			
Pumping Rate:		5.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		2			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933959017			
Layer:		1			
Kind Code:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind:		FRESH			
Water Found Depth:		200.0			
Water Found Depth UOM:		ft			

13	1 of 1	SSE/197.1	395.6 / -9.25	lot 1 con A ON	WWIS
Well ID:	6711530			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	9/1/1994
Sec. Water Use:	0			Selected Flag:	TRUE
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	2336
Casing Material:				Form Version:	1
Audit No:	139376			Owner:	
Tag:				Street Name:	
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	PILKINGTON TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	001
Well Depth:				Concession:	A
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/671\6711530.pdf

Additional Detail(s) (Map)

Well Completed Date: 1994/06/18
Year Completed: 1994
Depth (m): 134.112
Latitude: 43.6822076527893
Longitude: -80.4412454580048
Path: 671\6711530.pdf

Bore Hole Information

Bore Hole ID:	10475363	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	545036.10
Code OB Desc:		North83:	4836729.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	3
Date Completed:	18-Jun-1994 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	gps
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 932653028
Layer: 1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		15.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932653033			
Layer:		6			
Color:		6			
General Color:		BROWN			
Mat1:		26			
Most Common Material:		ROCK			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		420.0			
Formation End Depth:		440.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932653030			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		30.0			
Formation End Depth:		52.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932653029			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		15.0			
Formation End Depth:		30.0			
Formation End Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932653032			
Layer:		5			
Color:		2			
General Color:		GREY			
Mat1:		26			
Most Common Material:		ROCK			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		305.0			
Formation End Depth:		420.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932653031			
Layer:		4			
Color:		6			
General Color:		BROWN			
Mat1:		26			
Most Common Material:		ROCK			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		52.0			
Formation End Depth:		305.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966711530			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11023933			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930774272			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		80.0			
Casing Diameter:		8.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:			930774273		
Layer:			2		
Material:			4		
Open Hole or Material:			OPEN HOLE		
Depth From:					
Depth To:			440.0		
Casing Diameter:			8.0		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Results of Well Yield Testing</u>					
Pump Test ID:			996711530		
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:			100.0		
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			1		
Water State After Test:			CLEAR		
Pumping Test Method:			1		
Pumping Duration HR:			72		
Pumping Duration MIN:			0		
Flowing:			No		
<u>Water Details</u>					
Water ID:			933965534		
Layer:			3		
Kind Code:			1		
Kind:			FRESH		
Water Found Depth:			438.0		
Water Found Depth UOM:			ft		
<u>Water Details</u>					
Water ID:			933965532		
Layer:			1		
Kind Code:			1		
Kind:			FRESH		
Water Found Depth:			123.0		
Water Found Depth UOM:			ft		
<u>Water Details</u>					
Water ID:			933965533		
Layer:			2		
Kind Code:			1		
Kind:			FRESH		
Water Found Depth:			245.0		
Water Found Depth UOM:			ft		
14	1 of 1	W/200.3	404.9 / 0.00	94 WOOLWICH ST lot 1 con A ON	WWIS
Well ID:	7336266			Data Entry Status:	Yes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Date: Primary Water Use: Test Hole Sec. Water Use: Final Well Status: Abandoned-Other Water Type: Casing Material: Audit No: Z282687 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:		Data Src: Date Received: 7/3/2019 Selected Flag: TRUE Abandonment Rec: Yes Contractor: 6607 Form Version: 7 Owner: Street Name: 94 WOOLWICH ST County: WELLINGTON Municipality: PILKINGTON TOWNSHIP Site Info: Lot: 001 Concession: A Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:			
PDF URL (Map):					
<u>Additional Detail(s) (Map)</u>					
Well Completed Date: 2019/05/01 Year Completed: 2019 Depth (m): Latitude: 43.6867407467488 Longitude: -80.4476442338263 Path:					
<u>Bore Hole Information</u>					
Bore Hole ID: 1007515553 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 01-May-2019 00:00:00 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:		Elevation: Elevrc: Zone: 17 East83: 544517.00 North83: 4837229.00 Org CS: UTM83 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr			
<u>Method of Construction & Well Use</u>					
Method Construction ID: 1008000321 Method Construction Code: 6 Method Construction: Boring Other Method Construction:					
15	1 of 1	NNW/238.5	404.1 / -0.73	0441 WELLINGTON RD 7 lot 16 con 11 SALEM ON	WWIS
Well ID: 6715843 Construction Date:				Data Entry Status: Data Src:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Primary Water Use:	Domestic			Date Received:	8/2/2006
Sec. Water Use:				Selected Flag:	TRUE
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	6865
Casing Material:				Form Version:	3
Audit No:	Z38410			Owner:	
Tag:	A026059			Street Name:	0441 WELLINGTON RD 7
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	NICHOL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	016
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/671\6715843.pdf

Additional Detail(s) (Map)

Well Completed Date: 2006/01/30
Year Completed: 2006
Depth (m): 91.8
Latitude: 43.6897895846175
Longitude: -80.4450601326609
Path: 671\6715843.pdf

Bore Hole Information

Bore Hole ID:	11558364	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	544723.00
Code OB Desc:		North83:	4837569.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	3
Date Completed:	30-Jan-2006 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 933064784
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Mat2 Desc: SANDY
Mat3: 34
Mat3 Desc: TILL
Formation Top Depth: 0.0
Formation End Depth: 15.600000381469727

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933064788			
Layer:		5			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		24.200000762939453			
Formation End Depth:		91.80000305175781			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933064787			
Layer:		4			
Color:					
General Color:					
Mat1:		14			
Most Common Material:		HARDPAN			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		23.799999237060547			
Formation End Depth:		24.200000762939453			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933064786			
Layer:		3			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		84			
Mat2 Desc:		SILTY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		21.600000381469727			
Formation End Depth:		23.799999237060547			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933064785			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		15.600000381469727			
Formation End Depth:		21.600000381469727			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933300199			
Layer:		1			
Plug From:		0.0			
Plug To:		10.0			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966715843			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11567971			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930884072			
Layer:		1			
Material:					
Open Hole or Material:					
Depth From:		-0.699999988079071			
Depth To:		29.799999237060547			
Casing Diameter:		16.0			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Casing</u>					
Casing ID:		930884073			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		29.799999237060547			
Depth To:		91.80000305175781			
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		11574443			
Pump Set At:		70.0			
Static Level:		20.040000915527344			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Final Level After Pumping:</i>		36.25			
<i>Recommended Pump Depth:</i>		70.0			
<i>Pumping Rate:</i>		30.0			
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>		30.0			
<i>Levels UOM:</i>		m			
<i>Rate UOM:</i>		LPM			
<i>Water State After Test Code:</i>		1			
<i>Water State After Test:</i>		CLEAR			
<i>Pumping Test Method:</i>		1			
<i>Pumping Duration HR:</i>		1			
<i>Pumping Duration MIN:</i>		0			
<i>Flowing:</i>					
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665949			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		30			
<i>Test Level:</i>		22.3799991607666			
<i>Test Level UOM:</i>		m			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665951			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		40			
<i>Test Level:</i>		21.729999542236328			
<i>Test Level UOM:</i>		m			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665932			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		2			
<i>Test Level:</i>		22.75			
<i>Test Level UOM:</i>		m			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665935			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		3			
<i>Test Level:</i>		32.529998779296875			
<i>Test Level UOM:</i>		m			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665943			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		25.010000228881836			
<i>Test Level UOM:</i>		m			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665952			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		50			
<i>Test Level:</i>		35.849998474121094			
<i>Test Level UOM:</i>		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11665955		
Test Type:			Recovery		
Test Duration:			60		
Test Level:			21.149999618530273		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11665936		
Test Type:			Draw Down		
Test Duration:			4		
Test Level:			25.0		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11665939		
Test Type:			Recovery		
Test Duration:			5		
Test Level:			30.6200008392334		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11665930		
Test Type:			Draw Down		
Test Duration:			1		
Test Level:			21.549999237060547		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11665940		
Test Type:			Draw Down		
Test Duration:			10		
Test Level:			29.1299991607666		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11665946		
Test Type:			Draw Down		
Test Duration:			25		
Test Level:			33.689998626708984		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11665950		
Test Type:			Draw Down		
Test Duration:			40		
Test Level:			35.43000030517578		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11665937			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		31.510000228881836			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11665942			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		31.229999542236328			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11665954			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		36.25			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11665938			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		25.850000381469727			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11665931			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		34.880001068115234			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11665944			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		32.68000030517578			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11665948			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		34.400001525878906			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11665933			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		33.65999984741211			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665934			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		3			
<i>Test Level:</i>		23.940000534057617			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665941			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		10			
<i>Test Level:</i>		27.260000228881836			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665945			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		20			
<i>Test Level:</i>		23.770000457763672			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665947			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		25			
<i>Test Level:</i>		22.93000030517578			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11665953			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		50			
<i>Test Level:</i>		21.3700008392334			
<i>Test Level UOM:</i>		m			
<u>Water Details</u>					
<i>Water ID:</i>		934078550			
<i>Layer:</i>		1			
<i>Kind Code:</i>		1			
<i>Kind:</i>		FRESH			
<i>Water Found Depth:</i>		91.0			
<i>Water Found Depth UOM:</i>		m			
<u>Hole Diameter</u>					
<i>Hole ID:</i>		11690488			
<i>Diameter:</i>		23.0			
<i>Depth From:</i>		0.0			
<i>Depth To:</i>		29.799999237060547			
<i>Hole Depth UOM:</i>		m			
<i>Hole Diameter UOM:</i>		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
---------	-------------------	----------------------------	------------------	------	----

Hole Diameter

Hole ID: 11690487
 Diameter: 15.600000381469727
 Depth From: 29.799999237060547
 Depth To: 91.80000305175781
 Hole Depth UOM: m
 Hole Diameter UOM: cm

[16](#) 1 of 1 ESE/252.3 392.4 / -12.49 34 DAVID STREET WEST lot 19 con 11 ELORA ON WWIS

Well ID:	7175016	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:		Date Received:	1/13/2012
Sec. Water Use:		Selected Flag:	TRUE
Final Well Status:	Abandoned-Supply	Abandonment Rec:	Yes
Water Type:		Contractor:	7221
Casing Material:		Form Version:	7
Audit No:	Z137842	Owner:	
Tag:		Street Name:	34 DAVID STREET WEST
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	NICHOL TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	019
Well Depth:		Concession:	11
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/717\7175016.pdf

Additional Detail(s) (Map)

Well Completed Date: 2011/12/01
 Year Completed: 2011
 Depth (m):
 Latitude: 43.6838893709637
 Longitude: -80.4371615471996
 Path: 717\7175016.pdf

Bore Hole Information

Bore Hole ID:	1003633201	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	545364.00
Code OB Desc:		North83:	4836918.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	01-Dec-2011 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004131389			
Layer:		2			
Plug From:		3.0			
Plug To:		4.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004131390			
Layer:		3			
Plug From:		4.0			
Plug To:		14.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004131391			
Layer:		4			
Plug From:		14.0			
Plug To:		42.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004131388			
Layer:		1			
Plug From:		0.0			
Plug To:		3.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004131387			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004131381			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004131385			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1004131386			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1004131384			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1004131383			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
17	1 of 1	SE/269.5	386.2 / -18.70	7463 MIDDLEBROOK RD. ELORA ON	WWIS
Well ID:		7105392		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:				Date Received: 5/22/2008	
Sec. Water Use:				Selected Flag: TRUE	
Final Well Status: Abandoned-Other				Abandonment Rec: Yes	
Water Type:				Contractor: 4011	
Casing Material:				Form Version: 4	
Audit No: Z75381				Owner:	
Tag:				Street Name: 7463 MIDDLEBROOK RD.	
Construction Method:				County: WELLINGTON	
Elevation (m):				Municipality: NICHOL TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7105392.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		2008/05/06			
Year Completed:		2008			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth (m):					
Latitude:		43.6822666787882			
Longitude:		-80.4385910939871			
Path:		710\7105392.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		1001600112		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone: 17	
Code OB:				East83: 545250.00	
Code OB Desc:				North83: 4836737.00	
Open Hole:				Org CS: UTM83	
Cluster Kind:				UTMRC: 3	
Date Completed:		06-May-2008 00:00:00		UTMRC Desc: margin of error : 10 - 30 m	
Remarks:				Location Method: wwr	
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1001715138			
Layer:		1			
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:					
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1001715140			
Layer:		1			
Plug From:		0.0			
Plug To:		0.4000000059604645			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1001715144			
Layer:		7			
Plug From:		13.369999885559082			
Plug To:		17.18000030517578			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1001715142			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		3			
Plug From:		1.600000023841858			
Plug To:		9.539999961853027			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1001715143			
Layer:		4			
Plug From:		9.539999961853027			
Plug To:		13.369999885559082			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1001715146			
Layer:		6			
Plug From:		20.1200008392334			
Plug To:		24.06999969482422			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1001715145			
Layer:		8			
Plug From:		17.18000030517578			
Plug To:		20.1200008392334			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1001715141			
Layer:		2			
Plug From:		0.4000000059604645			
Plug To:		1.600000023841858			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1001715147			
Layer:		5			
Plug From:		24.06999969482422			
Plug To:		27.1299991607666			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1001715151			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID:		1001715136			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1001715149			
Layer:					
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:					
Casing Diameter:		10.0			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1001715150			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:					
Screen Diameter UOM:					
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1001715137			
Pump Set At:					
Static Level:		8.069999694824219			
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		0			
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:		No			
<u>Water Details</u>					
Water ID:		1001715148			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1001715139			
Diameter:					
Depth From:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		27.1299991607666			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

18	1 of 1	NW/278.4	405.2 / 0.31	0485 AVRUSILIN ST lot 16 con 11 SALEM ON	WWIS
Well ID:		6715527		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:		Domestic		Date Received: 10/25/2005	
Sec. Water Use:				Selected Flag: TRUE	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 6865	
Casing Material:				Form Version: 3	
Audit No:		Z26994		Owner:	
Tag:		A026037		Street Name: 0485 AVRUSILIN ST	
Construction Method:				County: WELLINGTON	
Elevation (m):				Municipality: NICHOL TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 016	
Well Depth:				Concession: 11	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/671\6715527.pdf

Additional Detail(s) (Map)

Well Completed Date: 2005/10/04
Year Completed: 2005
Depth (m): 74.7
Latitude: 43.6897598879335
Longitude: -80.4463632835356
Path: 671\6715527.pdf

Bore Hole Information

Bore Hole ID:	11327313	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	544618.00
Code OB Desc:		North83:	4837565.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	04-Oct-2005 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 933035643
Layer: 4

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		40.20000076293945			
Formation End Depth:		45.70000076293945			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		933035640			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		81			
Mat2 Desc:		SANDY			
Mat3:		28			
Mat3 Desc:		SAND			
Formation Top Depth:		0.0			
Formation End Depth:		6.099999904632568			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		933035641			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:		12			
Mat3 Desc:		STONES			
Formation Top Depth:		6.099999904632568			
Formation End Depth:		11.300000190734863			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		933035644			
Layer:		5			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		45.70000076293945			
Formation End Depth:		74.69999694824219			
Formation End Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933035642			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		74			
Mat2 Desc:		LAYERED			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		11.300000190734863			
Formation End Depth:		40.20000076293945			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933279917			
Layer:		1			
Plug From:		0.0			
Plug To:		23.799999237060547			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966715527			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11342168			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930872138			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		23.799999237060547			
Depth To:		74.69999694824219			
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Casing</u>					
Casing ID:		930872137			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-0.6000000238418579			
Depth To:		23.799999237060547			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Casing Diameter:		15.899999618530273			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		11353076			
Pump Set At:		60.0			
Static Level:		18.209999084472656			
Final Level After Pumping:		46.939998626708984			
Recommended Pump Depth:		60.0			
Pumping Rate:		30.0			
Flowing Rate:					
Recommended Pump Rate:		30.0			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481772			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		34.560001373291016			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481787			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		44.599998474121094			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481790			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		21.059999465942383			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481775			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		42.13999938964844			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481782			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		40.13999938964844			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11481784			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		10			
<i>Test Level:</i>		35.349998474121094			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11481785			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		2			
<i>Test Level:</i>		22.219999313354492			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11481771			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		20			
<i>Test Level:</i>		28.68000030517578			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11481768			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		3			
<i>Test Level:</i>		23.6200008392334			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11481773			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		1			
<i>Test Level:</i>		20.899999618530273			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11481774			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		1			
<i>Test Level:</i>		44.65999984741211			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11481777			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		25			
<i>Test Level:</i>		40.40999984741211			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11481792			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		38.22999954223633			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481793			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		24.649999618530273			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481770			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		35.31999969482422			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481778			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		42.279998779296875			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481779			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		29.010000228881836			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481783			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		1.5			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481791			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		46.939998626708984			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481769			
Test Type:		Recovery			
Test Duration:		25			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		26.399999618530273			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481776			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		43.470001220703125			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481780			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		41.189998626708984			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481781			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		26.350000381469727			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481786			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		20.299999237060547			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481788			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		22.389999389648438			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11481789			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		46.09000015258789			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		934066836			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:		74.0			
Water Found Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Hole Diameter</u>					
Hole ID:			11548292		
Diameter:			25.0		
Depth From:			0.0		
Depth To:			6.0		
Hole Depth UOM:			m		
Hole Diameter UOM:			cm		
<u>Hole Diameter</u>					
Hole ID:			11548291		
Diameter:			15.600000381469727		
Depth From:			23.799999237060547		
Depth To:			74.69999694824219		
Hole Depth UOM:			m		
Hole Diameter UOM:			cm		
<u>Hole Diameter</u>					
Hole ID:			11548290		
Diameter:			20.0		
Depth From:			6.0		
Depth To:			23.799999237060547		
Hole Depth UOM:			m		
Hole Diameter UOM:			cm		

19	1 of 1	NW/291.3	405.2 / 0.31	lot 16 con 11 ON	WWIS
Well ID:	6713903			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	11/5/2001
Sec. Water Use:				Selected Flag:	TRUE
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	6865
Casing Material:				Form Version:	1
Audit No:	225298			Owner:	
Tag:				Street Name:	
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	NICHOL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	016
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/671\6713903.pdf

Additional Detail(s) (Map)

Well Completed Date: 2001/10/02
Year Completed: 2001
Depth (m): 60.96
Latitude: 43.6899662489881
Longitude: -80.4462124845602
Path: 671\6713903.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
---------	-------------------	----------------------------	------------------	------	----

Bore Hole Information

Bore Hole ID:	10523035	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	544630.00
Code OB Desc:		North83:	4837588.00
Open Hole:		Org CS:	N83
Cluster Kind:		UTMRC:	3
Date Completed:	02-Oct-2001 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932854682
Layer:	5
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	91.0
Formation End Depth:	124.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932854681
Layer:	4
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	38.0
Formation End Depth:	91.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932854678
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		8.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932854684			
Layer:		7			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		160.0			
Formation End Depth:		200.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932854683			
Layer:		6			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		124.0			
Formation End Depth:		160.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932854679			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		05			
Mat2 Desc:		CLAY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		8.0			
Formation End Depth:		23.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932854680			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:	3				
Color:	2				
General Color:	GREY				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	11				
Mat2 Desc:	GRAVEL				
Mat3:					
Mat3 Desc:					
Formation Top Depth:	23.0				
Formation End Depth:	38.0				
Formation End Depth UOM:	ft				
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	933224756				
Layer:	1				
Plug From:	0.0				
Plug To:	20.0				
Plug Depth UOM:	ft				
<u>Method of Construction & Well Use</u>					
Method Construction ID:	966713903				
Method Construction Code:	2				
Method Construction:	Rotary (Convent.)				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	11071605				
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930778360				
Layer:	1				
Material:	1				
Open Hole or Material:	STEEL				
Depth From:					
Depth To:					
Casing Diameter:	6.0				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Construction Record - Casing</u>					
Casing ID:	930778361				
Layer:	2				
Material:	4				
Open Hole or Material:	OPEN HOLE				
Depth From:					
Depth To:					
Casing Diameter:	6.0				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Results of Well Yield Testing</u>					
Pump Test ID:			996713903		
Pump Set At:					
Static Level:			62.0		
Final Level After Pumping:			124.0		
Recommended Pump Depth:			150.0		
Pumping Rate:			6.0		
Flowing Rate:					
Recommended Pump Rate:			6.0		
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			1		
Water State After Test:			CLEAR		
Pumping Test Method:			1		
Pumping Duration HR:			1		
Pumping Duration MIN:					
Flowing:			No		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934612980		
Test Type:			Draw Down		
Test Duration:			30		
Test Level:			113.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934356208		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			95.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934874002		
Test Type:			Draw Down		
Test Duration:			45		
Test Level:			120.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			935134638		
Test Type:			Draw Down		
Test Duration:			60		
Test Level:			124.0		
Test Level UOM:			ft		
<u>Water Details</u>					
Water ID:			934015488		
Layer:			1		
Kind Code:			5		
Kind:			Not stated		
Water Found Depth:			125.0		
Water Found Depth UOM:			ft		
<u>Water Details</u>					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Water ID:		934015491			
Layer:		4			
Kind Code:		5			
Kind:		Not stated			
Water Found Depth:		200.0			
Water Found Depth UOM:		ft			
 <u>Water Details</u>					
Water ID:		934015490			
Layer:		3			
Kind Code:		5			
Kind:		Not stated			
Water Found Depth:		170.0			
Water Found Depth UOM:		ft			
 <u>Water Details</u>					
Water ID:		934015489			
Layer:		2			
Kind Code:		5			
Kind:		Not stated			
Water Found Depth:		140.0			
Water Found Depth UOM:		ft			

Unplottable Summary

Total: **10** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	The Corporation of the Township of Centre Wellington	David Street	Centre Wellington ON	
CA	Township of Centre Wellington	Middlebrook Road Bridge and Jones Baseline Bridge	Centre Wellington ON	
ECA	The Corporation of the Township of Centre Wellington	David Street	Centre Wellington ON	N0B 1S0
ECA	The Corporation of the Township of Centre Wellington	David Street	Centre Wellington ON	N0B 1S0
ECA	The Corporation of the Township of Centre Wellington	Wellington Road Number 7	Centre Wellington ON	N0B 1S0
ECA	The Corporation of the Township of Centre Wellington	Wellington Road No. 7	Centre Wellington ON	N0B 1S0
LIMO	County of Wellington Closed Salem Landfill	Gate 6, 0365 Wellington County Road 7 Lot 17-18 Concession 11 Centre Wellington	ON	
PTTW	W.M. Apartments Limited	Lot 17, Concession 11, Centre Wellington Township, County of Wellington COUNTY OF WELLINGTON	ON	
SPL		Fire# 5904, Wellington RD# 7 Wellington County 7km south of Elora<UNOFFICIAL>	Centre Wellington ON	
SPL	TRANSPORT TRUCK	COUNTY RD. 7, DOWN BY ELORA TRANSPORT TRUCK (CARGO)	CENTRE WELLINGTON TOWNSHIP ON	

Unplottable Report

Site: *The Corporation of the Township of Centre Wellington
David Street Centre Wellington ON*

Database:
[CA](#)

Certificate #: 6669-5XMLJ3
Application Year: 2004
Issue Date: 4/8/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Township of Centre Wellington
Middlebrook Road Bridge and Jones Baseline Bridge Centre Wellington ON*

Database:
[CA](#)

Certificate #: 9342-87EG68
Application Year: 2010
Issue Date: 7/20/2010
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *The Corporation of the Township of Centre Wellington
David Street Centre Wellington ON N0B 1S0*

Database:
[ECA](#)

Approval No: 8560-5XMLLT
Approval Date: 2004-04-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Corporation of the Township of Centre Wellington
Address: David Street
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *The Corporation of the Township of Centre Wellington
David Street Centre Wellington ON N0B 1S0*

Database:
[ECA](#)

Approval No: 6669-5XMLJ3
MOE District:

Approval Date: 2004-04-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Corporation of the Township of Centre Wellington
Address: David Street
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/5965-5WF5MX-14.pdf>
PDF Site Location:

City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *The Corporation of the Township of Centre Wellington
Wellington Road Number 7 Centre Wellington ON N0B 1S0*

Database:
[ECA](#)

Approval No: 6033-6F5HEW
Approval Date: 2005-08-16
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Corporation of the Township of Centre Wellington
Address: Wellington Road Number 7
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *The Corporation of the Township of Centre Wellington
Wellington Road No. 7 Centre Wellington ON N0B 1S0*

Database:
[ECA](#)

Approval No: 8485-5FNQGG
Approval Date: 2002-11-14
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: The Corporation of the Township of Centre Wellington
Address: Wellington Road No. 7
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *County of Wellington Closed Salem Landfill
Gate 6, 0365 Wellington County Road 7 Lot 17-18 Concession 11 Centre Wellington ON*

Database:
[LIMO](#)

ECA/Instrument No: X8108
Oper Status 2016: Historic
C of A Issue Date:
C of A Issued to:
Lndfl Gas Mgmt (P):
Lndfl Gas Mgmt (F):
Lndfl Gas Mgmt (E):
Lndfl Gas Mgmt Sys:
Landfill Gas Mntr:
Leachate Coll Sys:
ERC Est Vol (m3):
ERC Volume Unit:
ERC Dt Last Det:
Landfill Type:

Natural Attenuation:
Liners:
Cover Material:
Leachate Off-Site:
Leachate On Site:
Req Coll Lndfl Gas:
Lndfl Gas Coll:
Total Waste Rec:
TWR Methodology:
TWR Unit:
Tot Aprv Cap Unit:
Financial Assurance:
Last Report Year:
MOE Region:

Source File Type: Historic and Closed Landfills
Fill Rate:
Fill Rate Unit:
Tot Fill Area (ha):
Tot Site Area (ha):
Footprint:
Tot Apprv Cap (m3):
Contam Atten Zone:
Grndwtr Mntr:
Surf Wtr Mntr:
Air Emis Monitor:
Approved Waste Type:
Client Site Name: County of Wellington
Closed Salem Landfill

MOE District:
Site County:
Lot:
Concession:
Latitude:
Longitude:
Easting:
Northing:
UTM Zone:
Data Source:

ERC Methodology:
Site Name:
Site Location Details: Gate 6, 0365 Wellington County Road 7
Lot 17-18 Concession 11
Centre Wellington

Service Area:
Page URL:

Site: **W.M. Apartments Limited**
Lot 17, Concession 11, Centre Wellington Township, County of Wellington COUNTY OF WELLINGTON ON

Database:
PTTW

EBR Registry No: 010-0231
Ministry Ref No: 1224-6ZSQZ9
Notice Type: Instrument\Decision
Notice Stage:
Notice Date: January\21,\2008
Proposal Date: April\04,\2007
Year: 2007
Instrument Type: (OWRA\ss.\s34)\s-\sPermit\sto\sTake\sWater
Off Instrument Name:
Posted By:
Company Name: W.M.\sApartments\sLimited
Site Address:
Location Other:
Proponent Name:
Proponent Address: Post\sOffice\sBox\sDelivery\s6000,\sTantallon\sNova\sScotia,\sCanada\sB3Z\s4G9
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Lot 17, Concession 11, Centre Wellington Township, County of Wellington COUNTY OF WELLINGTON

Site: **Fire# 5904, Wellington RD# 7 Wellington County 7 km south of Elora<UNOFFICIAL> Centre Wellington ON**

Database:
SPL

Ref No: 7872-7JBHAX
Site No:
Incident Dt:
Year:
Incident Cause: Other Discharges
Incident Event:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Soil Contamination
Receiving Medium:
Receiving Env:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Other Motor Vehicle
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office: Guelph
Site Postal Code:
Site Region:
Site Municipality: Centre Wellington
Site Lot:
Site Conc:
Northing:

MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/9/2008
Dt Document Closed: 1/24/2009
Incident Reason:
Site Name: Fire# 5904, Wellington RD# 7 Wellington County ¿ 7km south of Elora<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Mann's Construction: MVA 200L diesel to grnd.
Contaminant Qty: 200 L

Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Land Spills
Source Type:

Site: **TRANSPORT TRUCK**
COUNTY RD. 7, DOWN BY ELORA TRANSPORT TRUCK (CARGO) CENTRE WELLINGTON TOWNSHIP ON

Database:
SPL

Ref No: 172499
Site No:
Incident Dt: 9/9/1999
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/9/1999
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: ROTHSAY- ANIMAL RENDERING MATERIAL TO ROADWAY. PD, WORKS, FD.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 75614
Site Lot:
Site Conc:
Northing:
Easting: O.P.P., WORKS, F/D
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System:

Provincial [AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private [ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial [AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private [AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Sep 30, 2021

Borehole:

Provincial [BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Jan 2022

Certificates of Property Use:

Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Mar 31, 2022

Drill Hole Database:Provincial [DRL](#)

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020**Delisted Fuel Tanks:**Provincial [DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Feb 28, 2022**Environmental Activity and Sector Registry:**Provincial [EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011- Feb 28, 2022**Environmental Registry:**Provincial [EBR](#)

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Mar 31, 2022**Environmental Compliance Approval:**Provincial [ECA](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Feb 28, 2022**Environmental Effects Monitoring:**Federal [EEM](#)

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007***ERIS Historical Searches:**Private [EHS](#)

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Nov 30, 2021**Environmental Issues Inventory System:**Federal [EIIS](#)

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land / water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2021

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Federal Convictions:

Federal **FCON**

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents:

Provincial

[HINC](#)

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

[MINE](#)

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial [MNR](#)

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2022

National Analysis of Trends in Emergencies System (NATES):

Federal [NATE](#)

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial [NCPL](#)

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal [NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal [NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal [NEBP](#)

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

[NEES](#)

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

[NPCB](#)

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

[NPRI](#)

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

[OGWE](#)

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 28, 2022

Ontario Oil and Gas Wells:

Provincial

[OOGW](#)

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites:

Provincial

[OPCB](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders:

Provincial

[ORD](#)

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Feb 28, 2022

Canadian Pulp and Paper:

Private

[PAP](#)

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

Federal

[PCFT](#)

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- 28 Feb 2022

Pipeline Incidents:

Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks:

Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Mar 31, 2022

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Feb 2022

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Sep 2020; Dec 2020-Mar 2021

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2019

Anderson's Storage Tanks:

Private [TANK](#)

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Feb 28, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30th, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Sep 30, 2021

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

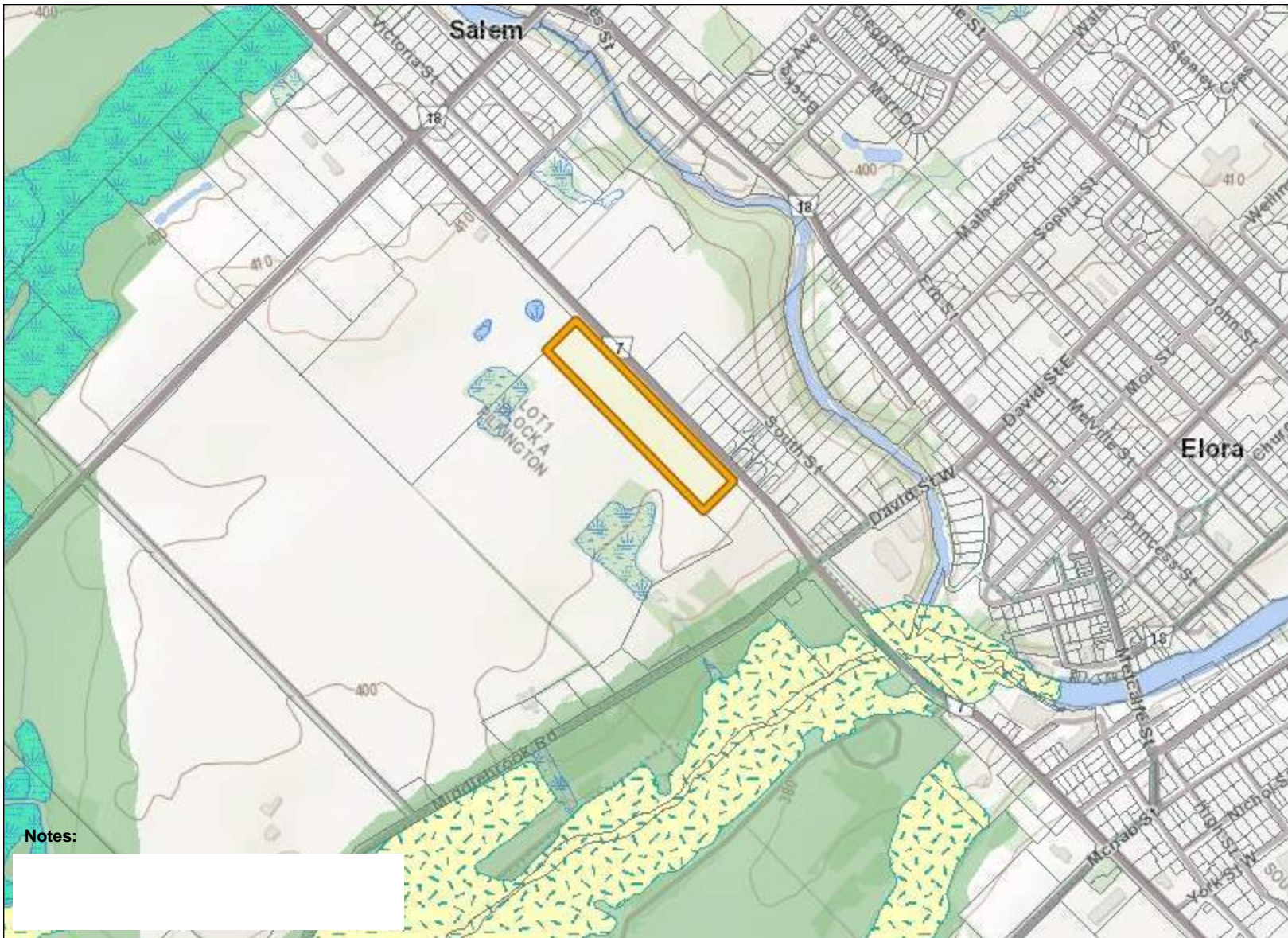
Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX F



Legend

-  Assessment Parcel
- ANSI**
-  Earth Science Provincially Significant/sciences de la terre d'importance provinciale
-  Earth Science Regionally Significant/sciences de la terre d'importance régionale
-  Life Science Provincially Significant/sciences de la vie d'importance provinciale
-  Life Science Regionally Significant/sciences de la vie d'importance régionale
-  Evaluated Wetland
-  Provincially Significant/considérée d'importance provinciale
-  Non-Provincially Significant/non considérée d'importance provinciale
-  Unevaluated Wetland
-  Conservation Reserve
-  Provincial Park
-  Natural Heritage System



Notes:

[Redacted notes area]



Absence of a feature in the map does not mean they do not exist in this area.

This map should not be relied on as a precise indicator of routes or locations, nor as a guide to navigation. The Ontario Ministry of Natural Resources and Forestry(OMNRF) shall not be liable in any way for the use of, or reliance upon, this map or any information on this map.

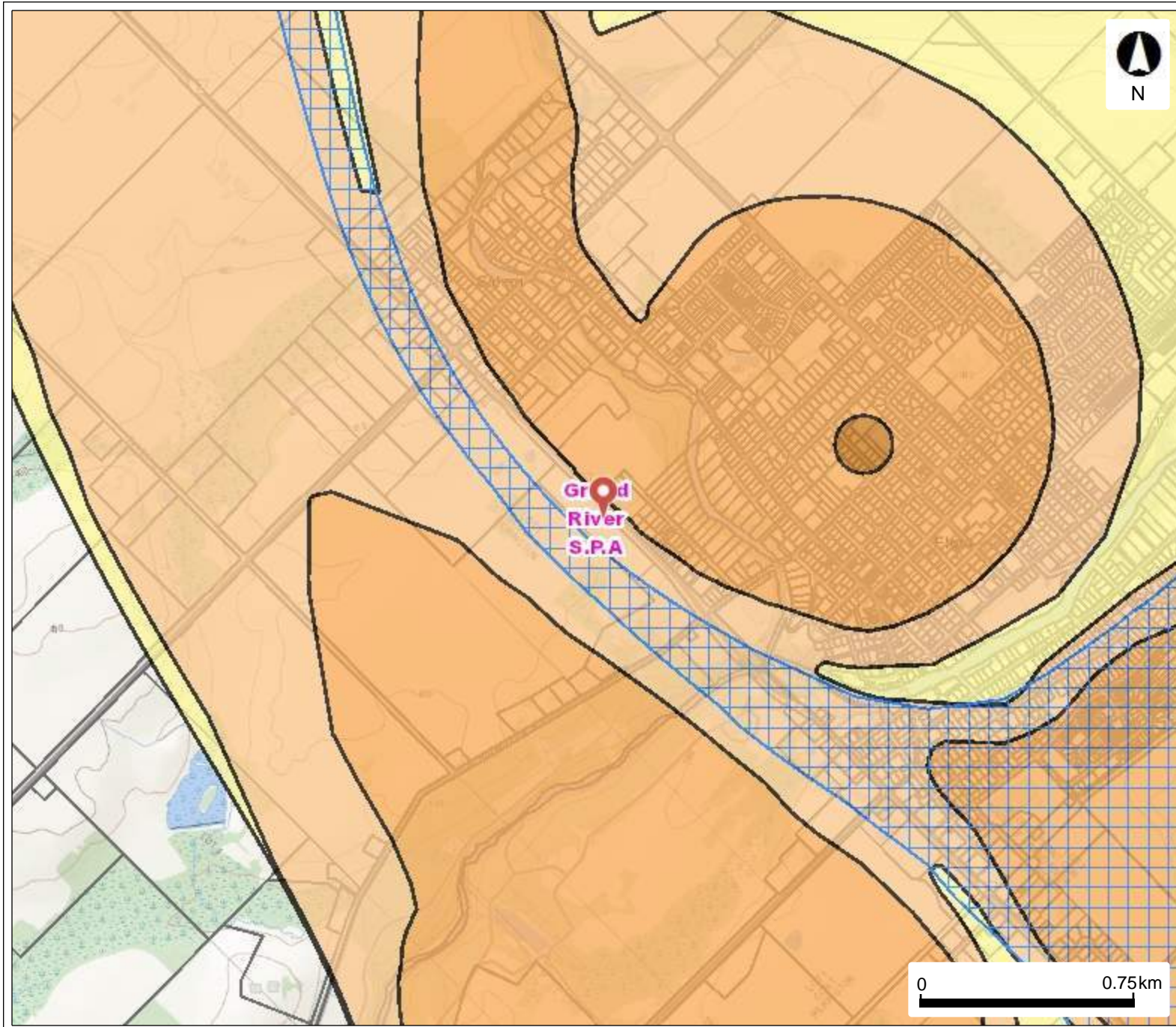
© Copyright for Ontario Parcel data is held by Queen's Printer for Ontario and its licensors and may not be reproduced without permission. THIS IS NOT A PLAN OF SURVEY.



Imagery Copyright Notices: DRAPE © Aéro-Photo (1961) Inc., 2008 - 2009
 GTA 2005 / SWOOP 2006 / Simcoe-Muskoka-Dufferin © FirstBase Solutions, 2005 / 2006 / 2008
 © Queen's Printer for Ontario, 2022



Source Water Protection



Legend

- Source Protection Areas
- Issue Contributing Areas
- WHPA Groundwater Under Direct Influence (WHPA-E)
- Wellhead Protection Area
 - A
 - B
 - C
 - C1
 - D
 - F
- Intake Protection Zone 1
- Event Based Areas
- Intake Protection Zone 2
- Assessment Parcel with Address

This map should not be relied on as a precise indicator of routes or locations, nor as a guide to navigation. The Ontario Ministry of Environment, Conservation and Parks (MECP) shall not be liable in any way for the use or any information on this map. of, or reliance upon, this map.

RE: Grounded Eng - TSSA Inquiry (22-084)
Public Information Services <publicinformationsservices@tssa.org>
Fri 6/24/2022 11:30 AM
To:

- Jason Ngo <jngo@groundedeng.ca>

External (publicinformationsservices@tssa.org)

[Report This Email](#) [FAQ](#) [TeleGlobal Email Protection](#)

Please refrain from sending documents to head office. The Public Information (PI) team works remotely, mailing in applications will lengthen the overall processing time.

NO RECORD FOUND IN CURRENT DATABASE

Hello,

Thank you for your request for confirmation of public information. TSSA has performed a preliminary search of TSSA's current database.

- We confirm that there are no records in our current database of any fuel storage tanks at the subject address(es).

This is not a confirmation that there are no records in the archives. For a further search in our archives, please submit an application for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.

Please follow the steps below to access the new application(s) and Service Prepayment Portal:

1. Click Release of Public Information - TSSA and click "need a copy of a document";
2. Select the appropriate application, download it and complete it in full; and
3. Proceed to page 3 of the application and click the link TSSA Service Prepayment Portal under payment options (the link will take you the secure site to pay for the release via credit card).

Accessing the Service Prepayment Portal:

1. Select new or existing customer (*if you are an existing customer, you will need your account # & postal code to access your account);
2. Select the program area: AD (Amusement Devices), BPV (Boilers and Pressure Vessels), ED (Elevating Devices), FS (Fuels Services), OE (Operating Engineers) or SKI (Ski Lifts) and click continue;
3. Enter the application form number (obtained from bottom left corner of application form) and click continue;
 - a. When selecting the application form number from the drop-down menu, please make sure you select the application that begins with "PI" (i.e. PI-FS, PI-BPV etc.);
4. Complete the primary contact information section;
5. Complete the fees section;
6. Upload your completed application; and
7. Upload supporting documents (if required) and click continue.

Once all steps have been successfully completed, you will receive your receipt via email.

Questions? Please contact TSSA's Public Information Release team at publicinformationservices@tssa.org.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind Regards,
Kim



Public Information Agent

Facilities and Business Services

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org

www.tssa.org



From: Jason Ngo <jngo@groundedeng.ca>

Sent: June 23, 2022 10:02 AM

To: Public Information Services <publicinformationservices@tssa.org>

Subject: Grounded Eng - TSSA Inquiry (22-084)

[CAUTION]: This email originated outside the organisation.

Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good Afternoon TSSA Team,

I'm doing a Phase One Assessment and would like to request a preliminary basic record search for the following properties in Centre Wellington, Ontario please:

- 350 Wellington Road 7
- 367 South St

Thank you in advance for the help!

Jason Ngo

Project Coordinator, Environmental Engineering Services



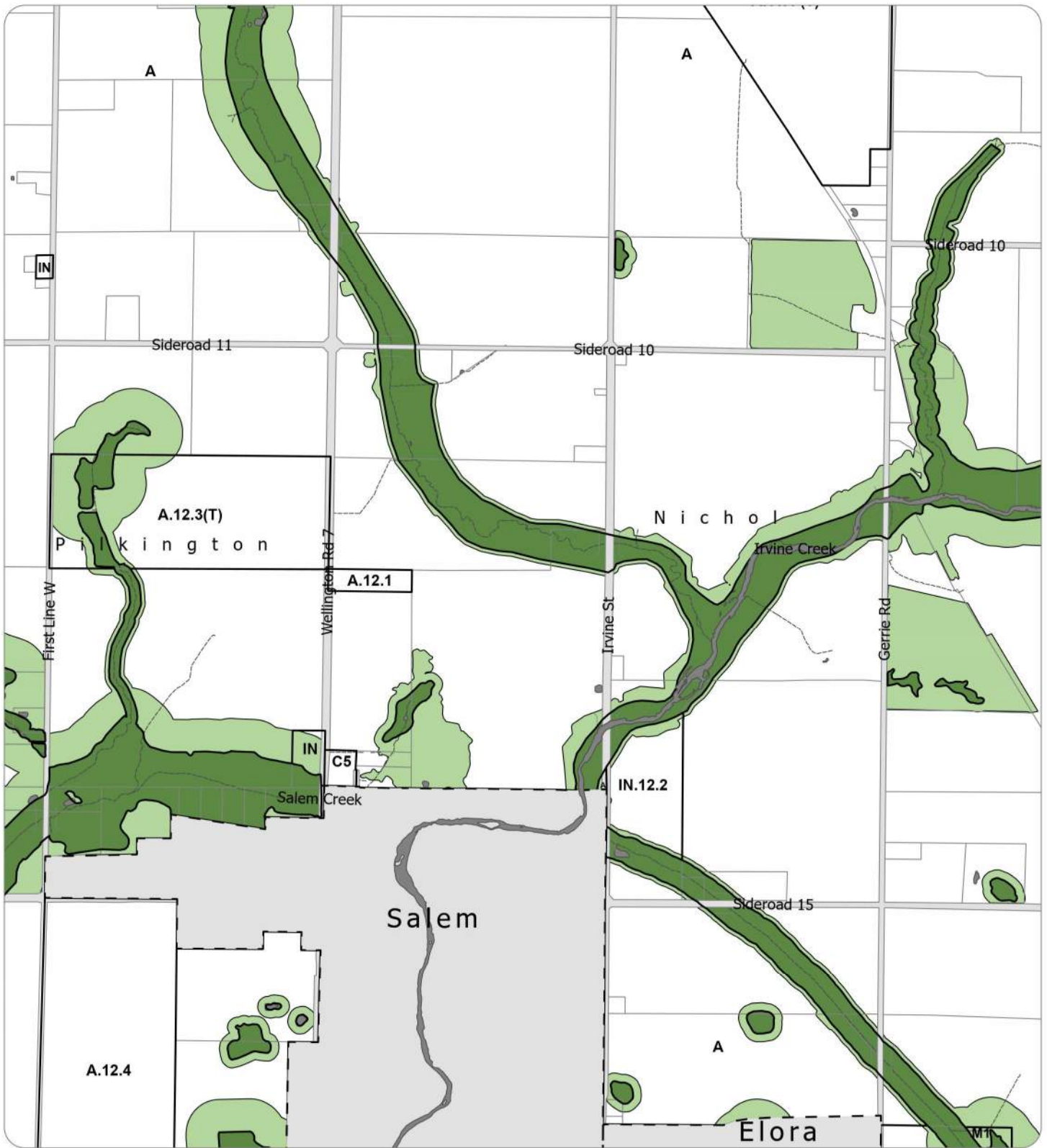
Grounded Engineering Inc.

1 Banigan Drive, Toronto, M4H 1G3

jngo@groundedeng.ca | www.groundedeng.ca

The information in this email is intended only for the named recipient and may be privileged and/or confidential. If you are not the intended recipient please notify us immediately and do not copy, distribute or take action based on this email.

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

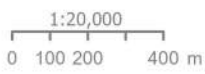


- Zone Boundary
- Environmental Protection
- Environmental Protection Overlay
- Urban Area
- Parcel Fabric
- Floodplain
- Flood Fringe
- Waterbody
- Watercourse
- Road

			21	27	33	39
1	6	11	16	22	28	34
2	7	12	17	23	29	35
3	8	13	18	24	30	36
4	9	14	19	25	31	37
5	10	15	20	26	32	38
				41	47	53

Township of Centre Wellington
 Zoning By-Law
 Schedule "A"
Map 12
 Nichol-Pilkington

Sources: May include data from the Grand River Conservation Authority, County of Wellington, Teranet (2004) and ©2022 of the Queens Printer For Ontario. Data provided herein is derived from sources with varying levels of accuracy and currency. This is not a survey product. The Township of Centre Wellington disclaims all responsibility for the accuracy or completeness of information contained herein. The Township of Centre Wellington assumes no responsibility for errors arising from use of these mapping products. All rights reserved. May not be reproduced without permission. © 2022 The Township of Centre Wellington. Path: C:\DATA_ENTERPRISE\ZONING\ARPA\Zoning_ByLaw_Maps\Zoning_ByLaw_Maps.aprx

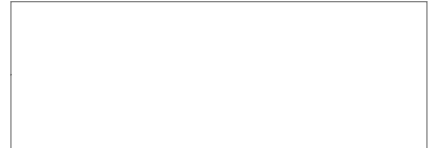


Author: gwolowich
 Date Saved: 2022-07-04 3:35 PM





350 Wellington Road 7, Elora, Ontario

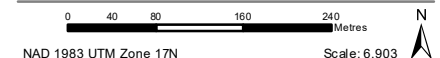


Legend

- Regulation Limit (GRCA)
- Regulated Watercourse (GRCA)
- Regulated Waterbody (GRCA)
- Wetland (GRCA)
- Floodplain (GRCA)
 - Engineered
 - Estimated
 - Approximate
 - Special Policy Area
- Slope Valley (GRCA)
 - Steep
 - Oversteep
 - Steep
- Slope Erosion (GRCA)
 - Oversteep
 - Toe
- Lake Erie Flood (GRCA)
- Lake Erie Shoreline Reach (GRCA)
- Lake Erie Dynamic Beach (GRCA)
- Lake Erie Erosion (GRCA)
- Parcel - Assessment (MPAC/MNRF)

This legend is static and may not fully reflect the layers shown on the map. The text of Ontario Regulation 150/06 supercedes the mapping as represented by these layers.

Copyright Grand River Conservation Authority, 2022. Disclaimer: This map is for illustrative purposes only. Information contained herein is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user. The source for each data layer is shown in parentheses in the map legend. For a complete listing of sources and citations go to: <https://maps.grandriver.ca/Sources-and-Citations.pdf>



APPENDIX G





YEAR: 1930



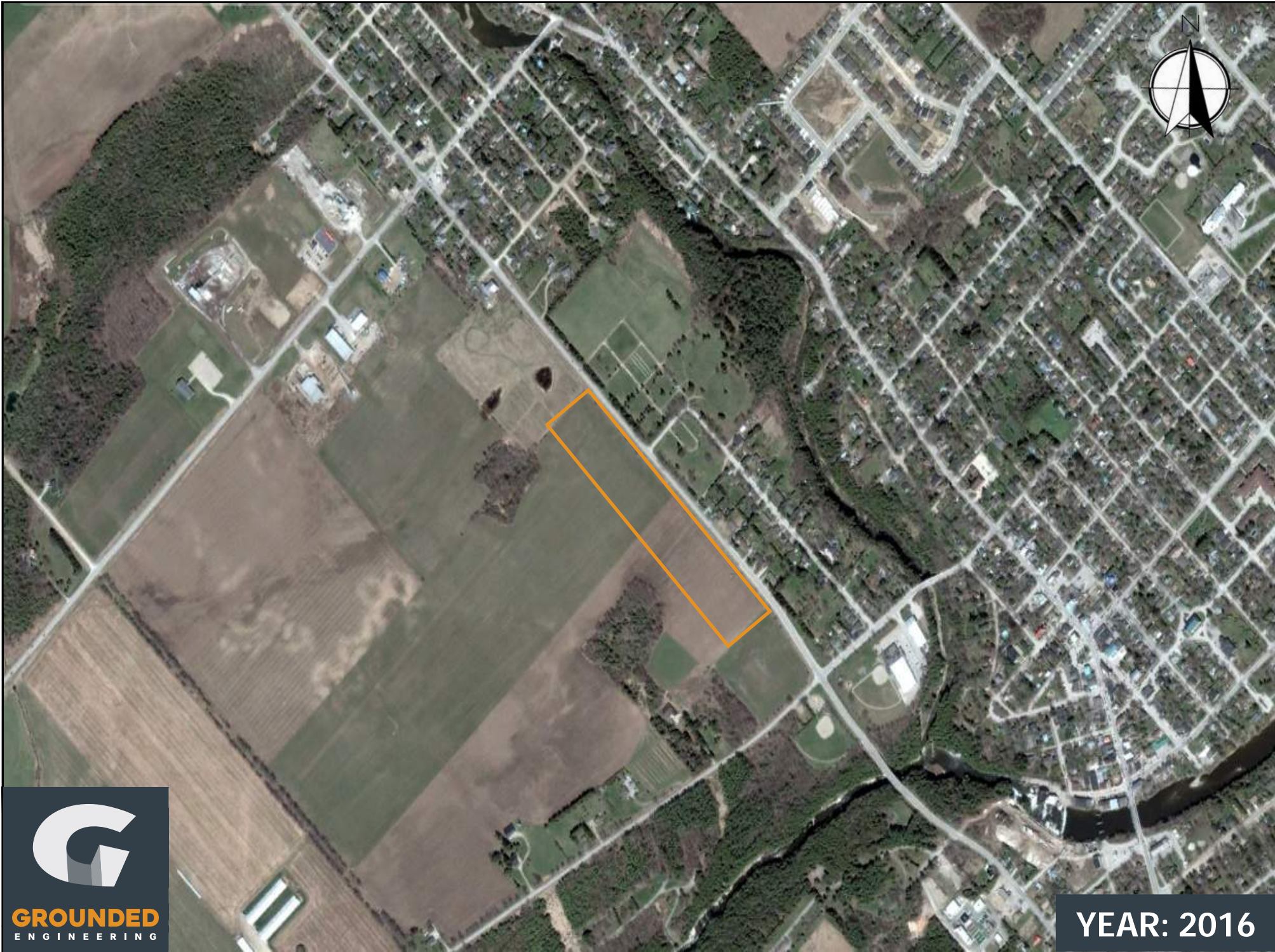


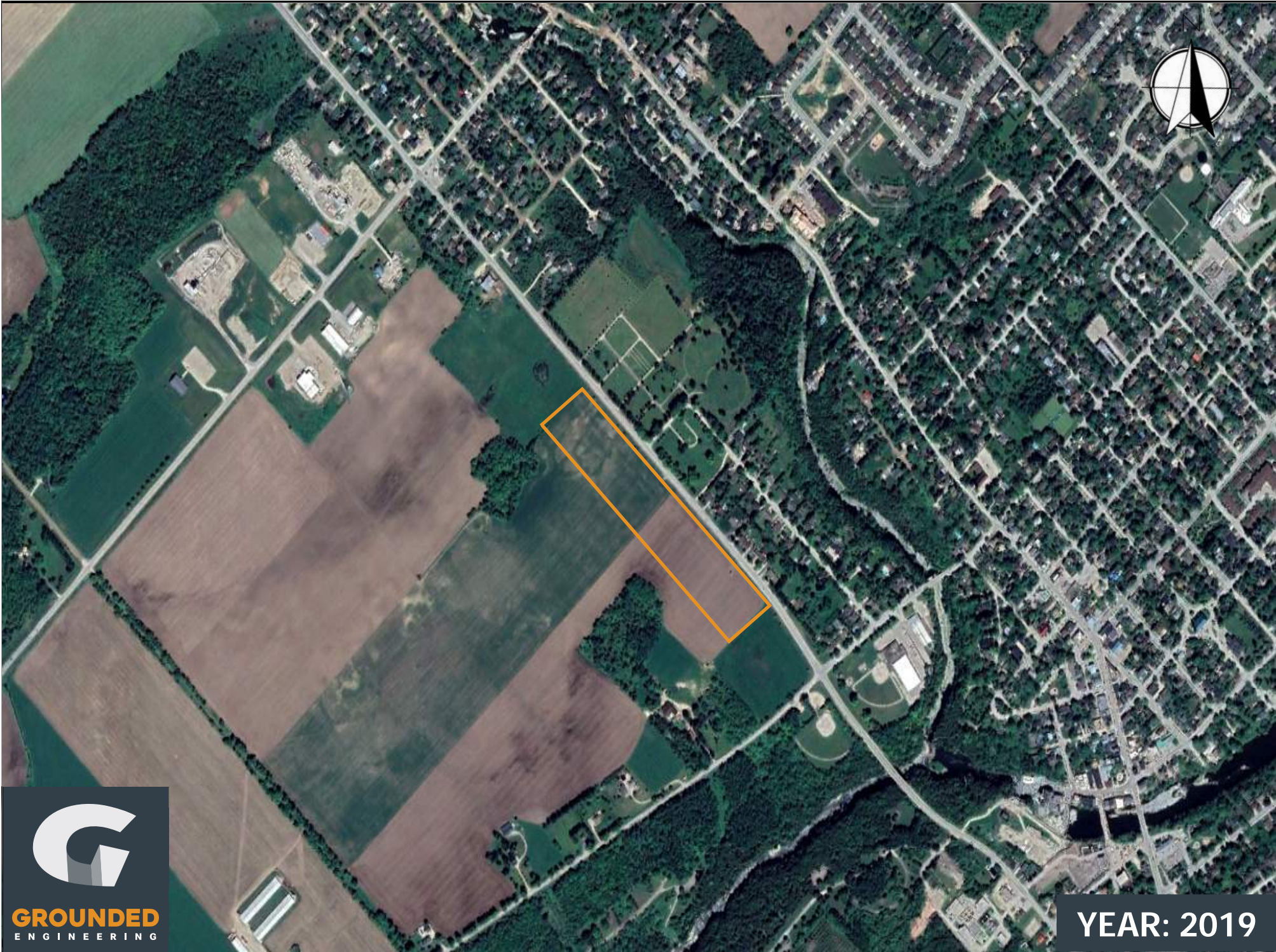
YEAR: 2006



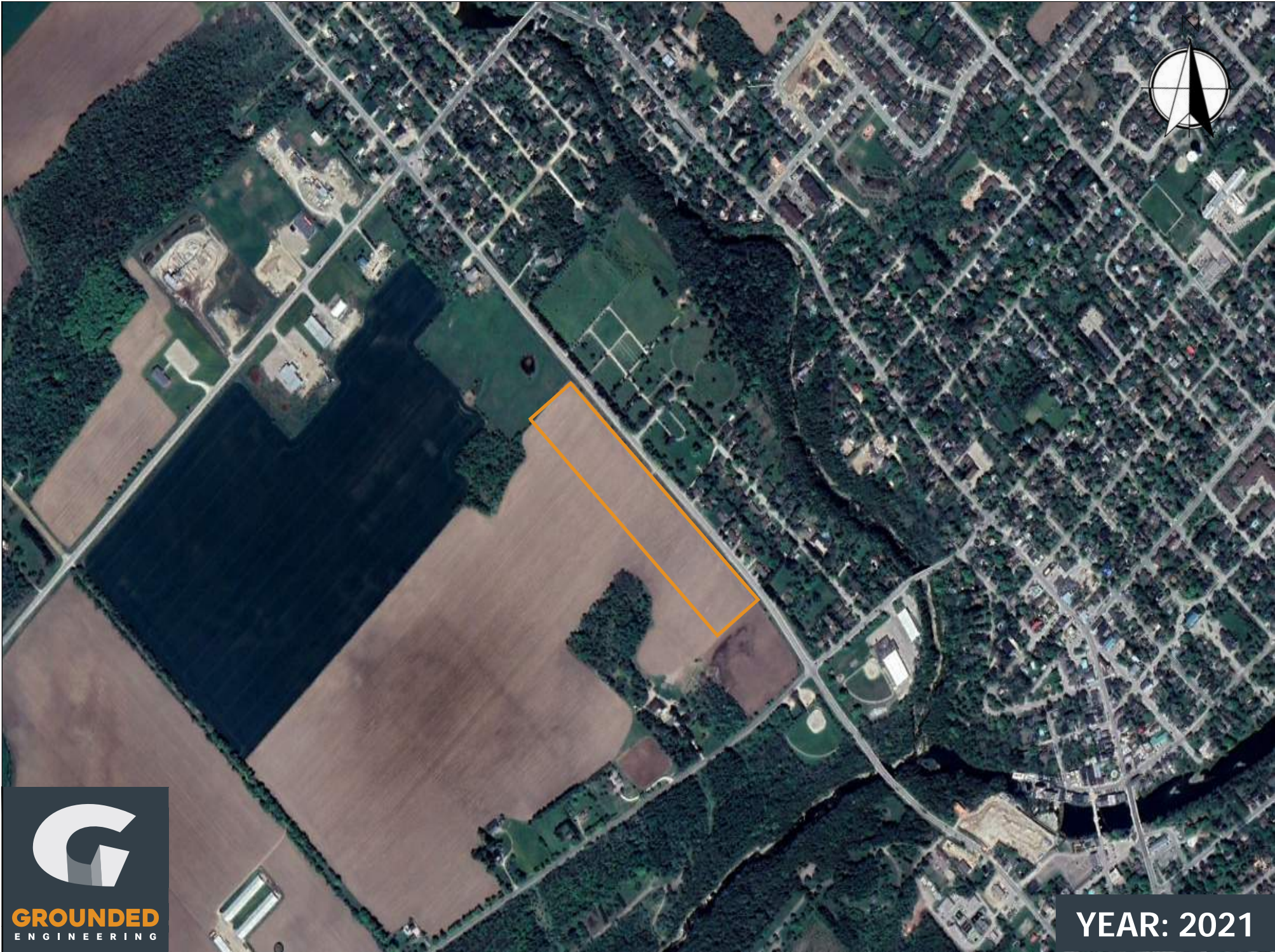
YEAR: 2009







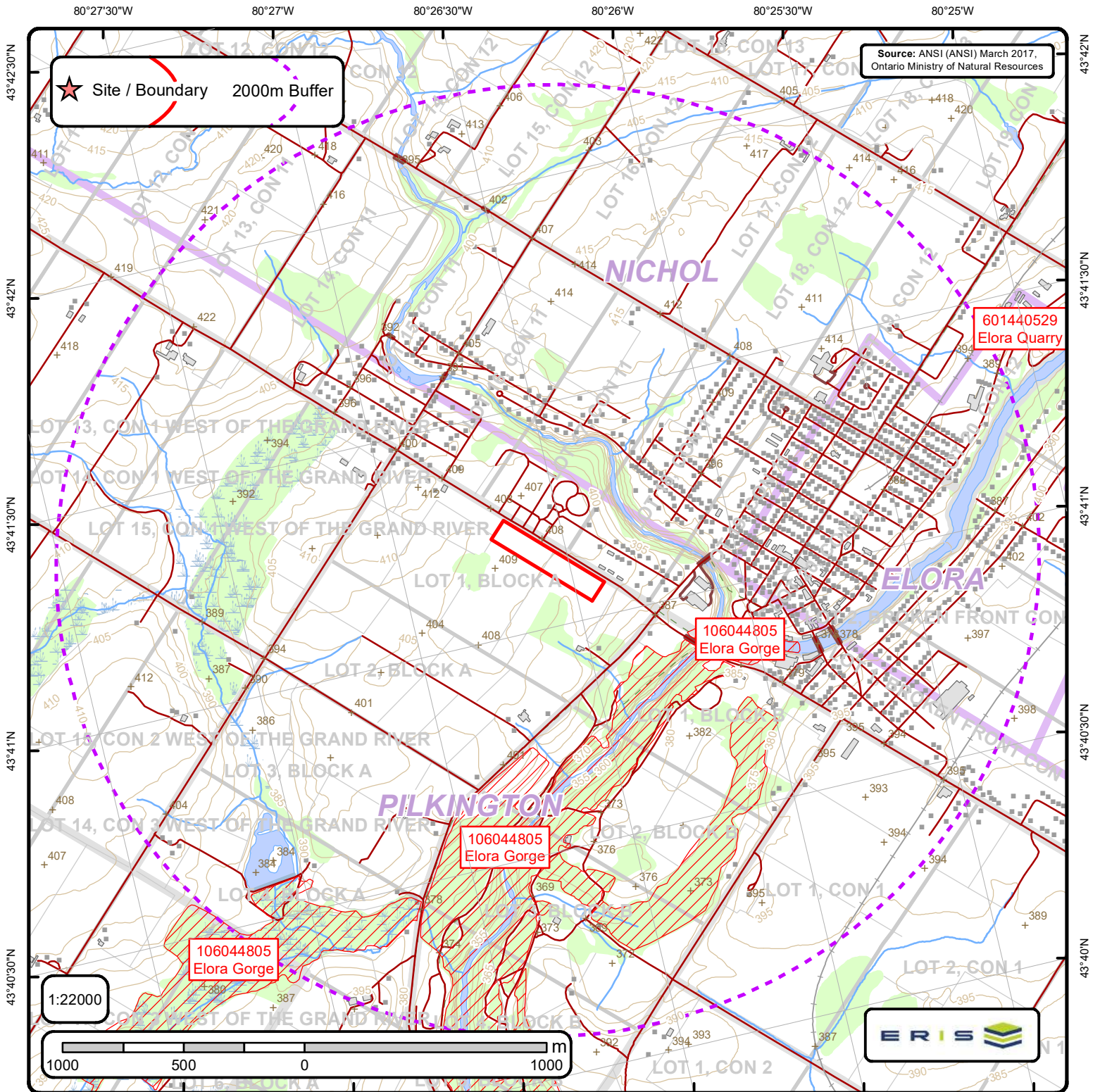
YEAR: 2019



YEAR: 2021

APPENDIX H





Area of Natural & Scientific Interest (ANSI) Order No. 22041800252

+	Spot Height	—	Transportation Structure	—	Contour Line	■	Wooded Area
■	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⚙	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
●	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	■	Airports	■	Lots	■	National Park
—	Roads	■	Tanks	■	Municipality	■	Nature Reserve
- - -	Trail	■	Building to Scale	■	Land Ownership	■	ANSI Area



ANSI Report

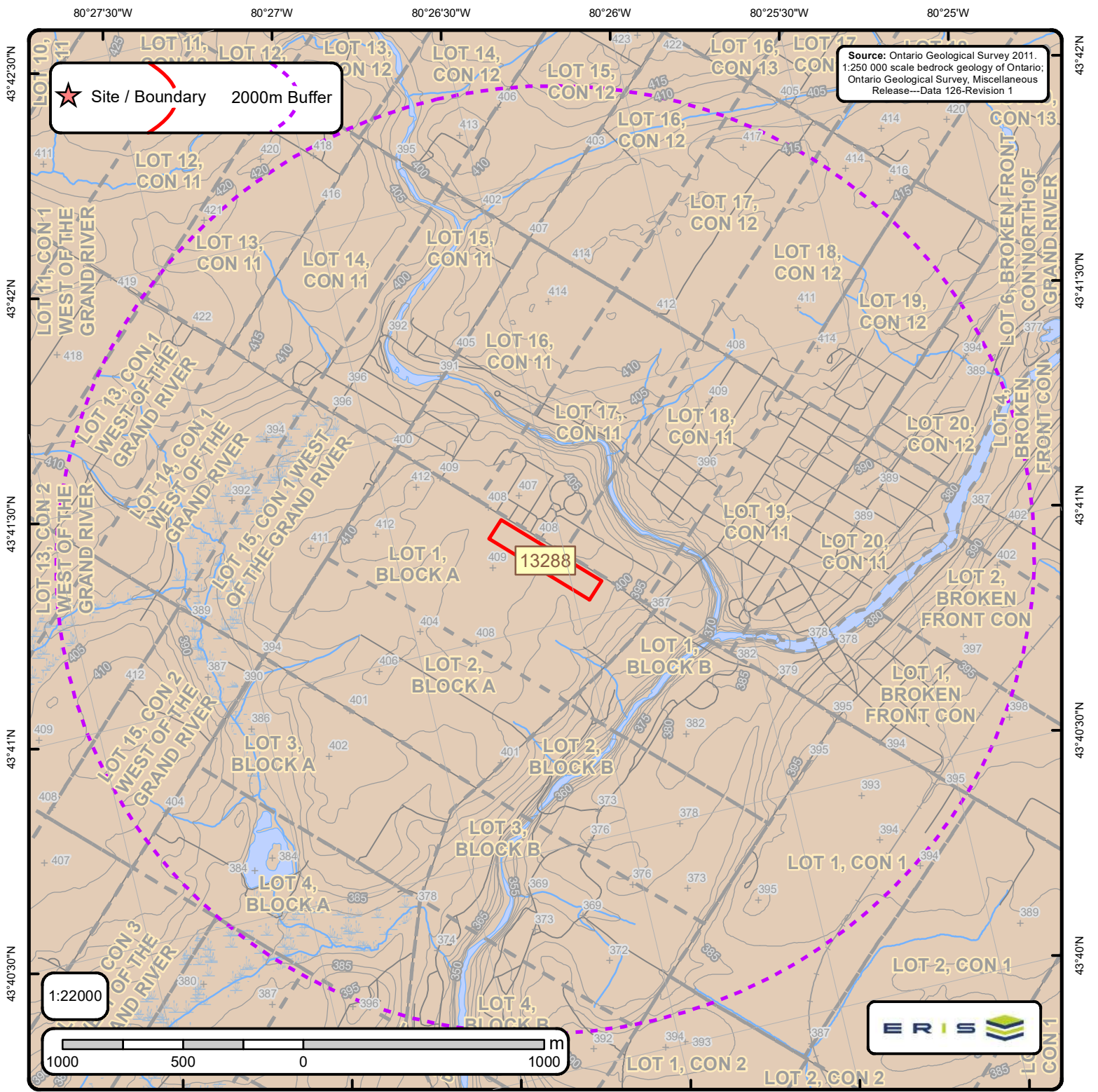
ANSI Units Found within 2000 m of
350 Wellington Road 7

Page 1
Order No.
22041800252



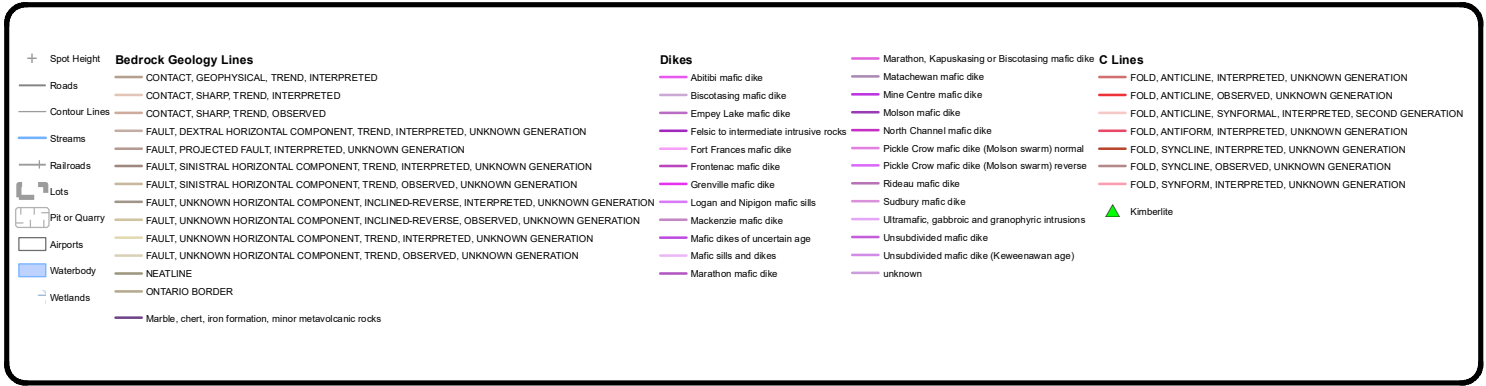
ANSI Name: Elora Gorge

ID: 106044805 | **Type:** ANSI, Life Science | **Significance:** Regional | **Management Plan:** No | **Area (sqm):** 1471334.911 | **Comments:**
N/A



Bedrock Geology of Ontario

Order No. 22041800252





Bedrock Geology Report

Bedrock Geology units found within 2000 m of
350 Wellington Road 7

Page 1
Order No.
22041800252



ID: 13288 | **Unit Name:** |

Type (All): 56a | **Type (Primary):** 56a | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Sandstone, shale, dolostone, siltstone | **Strata (Primary):** Guelph Formation | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** SILURIAN (416.0 Ma to 443.7 Ma) | **Epoch (Primary):** UPPER SILURIAN TO LOWER DEVONIAN | **Province (Primary):**



Bedrock Geology Report Metadata

Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126
Revision1

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



ID - Unit ID **Unit Name** - Generalized geological unit classification

Type (All) - The geological unit number(s) or code(s) for all rock types present in an individual polygon.

Type (Primary) - The primary geological unit number or code for the primary rock type in an individual polygon

Type (Secondary) - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon

Type (Tertiary) - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon

Rock Type (Primary) - Rock type or sub-unit description

Status (Primary) - The Stratigraphic unit. Divided into:

- Supergroup (two or more groups and lone formations)
- Group (two or more formations)
- Formation (primary unit of lithostratigraphy)
- Member (named lithologic subdivision of a formation)
- Bed (named distinctive layer in a member or formation)

Super Eon (Primary) - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are:

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

Eon (Primary) - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are:

- ARCHEAN (2.5 Ga to <3.85 Ga)
- PROTEROZOIC (0.542 Ga to 2.50 Ga)
- PHANEROZOIC (Present to 542.0 Ma)

Era (Primary) - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are:

- | | |
|---|--|
| MESOARCHEAN (2.8 Ga to 3.2 Ga) | MESOPROTEROZOIC (1.0 Ga to 1.6 Ga) |
| NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga) | EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga) |
| NEOARCHEAN (2.5 Ga to 2.8 Ga) | NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga) |
| PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga) | PALEOZOIC (251.0 Ma to 542.0 Ma) |
| MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga) | MESOZOIC (65.5 Ma to 251.0 Ma) |

Period (Primary) - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are:

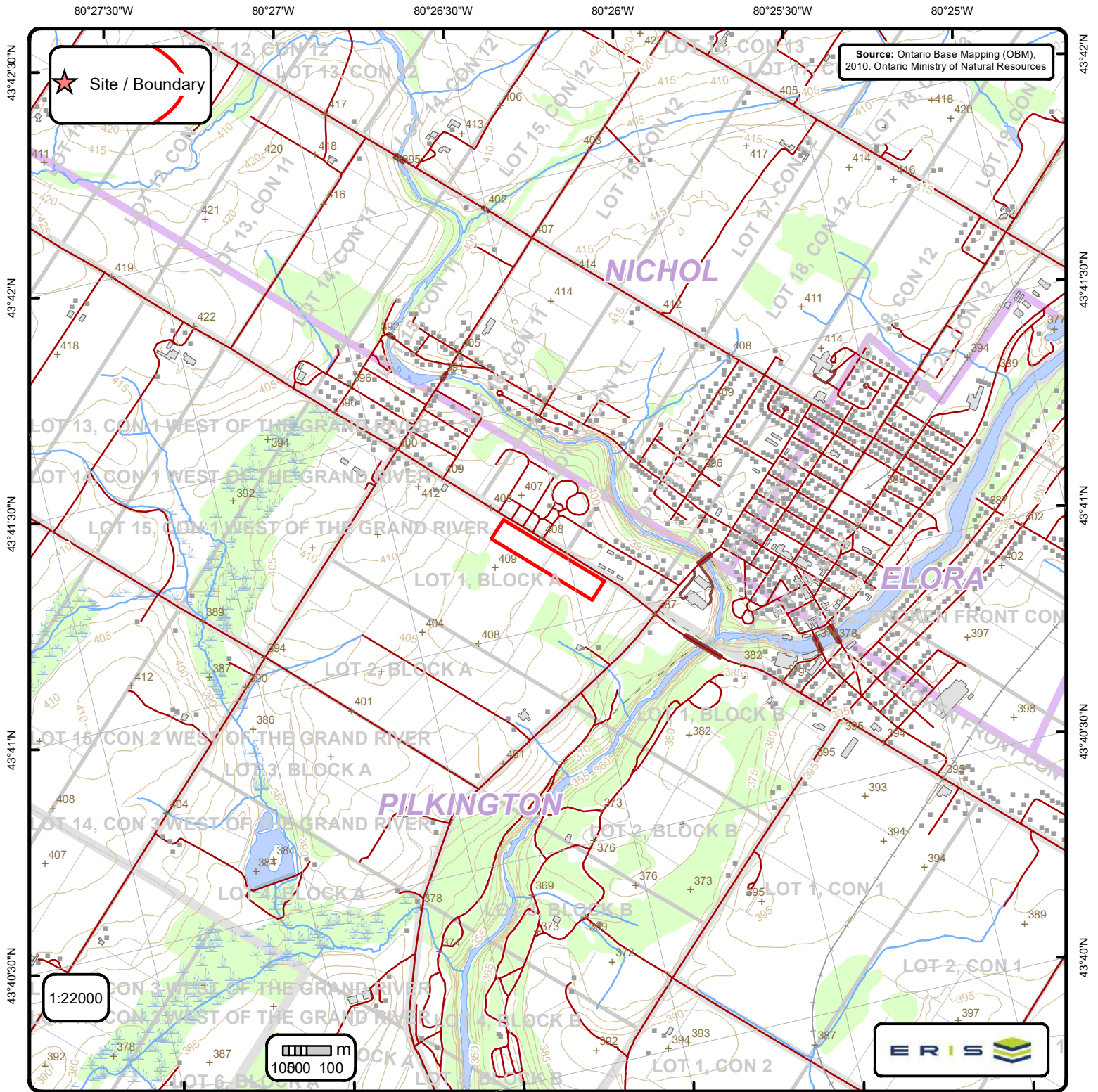
- CAMBRIAN (488.3 Ma to 542.0 Ma)
- ORDOVICIAN (443.7 Ma to 488.3 Ma)
- SILURIAN (416.0 Ma to 443.7 Ma)
- DEVONIAN (359.2 Ma to 416.0 Ma)
- MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)
- JURASSIC (145.5 Ma to 199.6 Ma)
- CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)

Epoch (Primary) - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are:

- | | |
|----------------------------------|--------------------------------------|
| LOWER ORDOVICIAN | UPPER SILURIAN |
| MIDDLE ORDOVICIAN | LOWER DEVONIAN |
| UPPER ORDOVICIAN | MIDDLE DEVONIAN |
| MIDDLE AND LOWER SILURIAN | UPPER DEVONIAN |
| UPPER SILURIAN TO LOWER DEVONIAN | LOWER CRETACEOUS AND MIDDLE JURASSIC |

Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

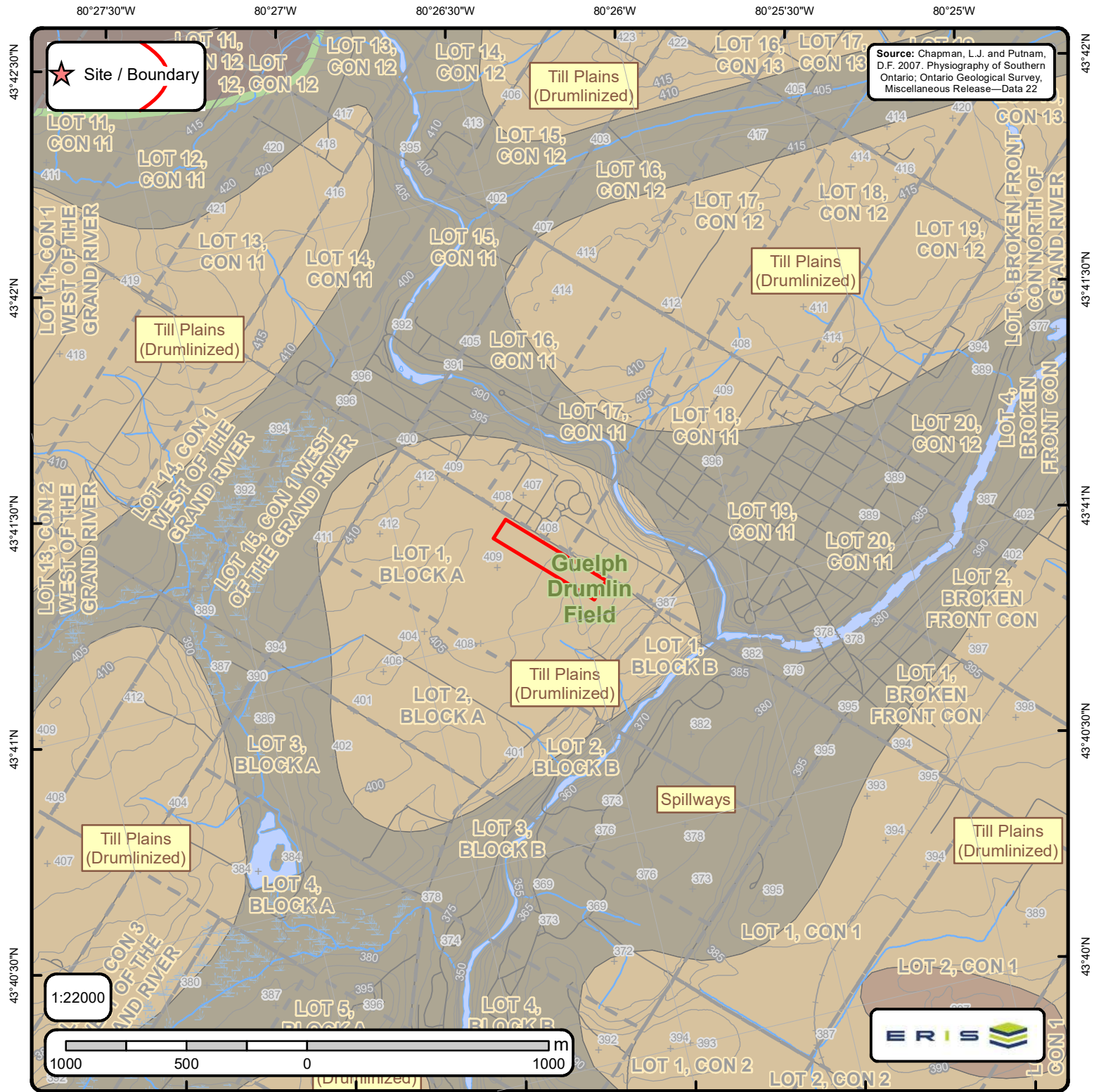
- SUPERIOR
- SOUTHERN
- SUPERIOR
- GRENVILLE



Ontario Base Mapping (OBM) Data

Order No. 22041800252

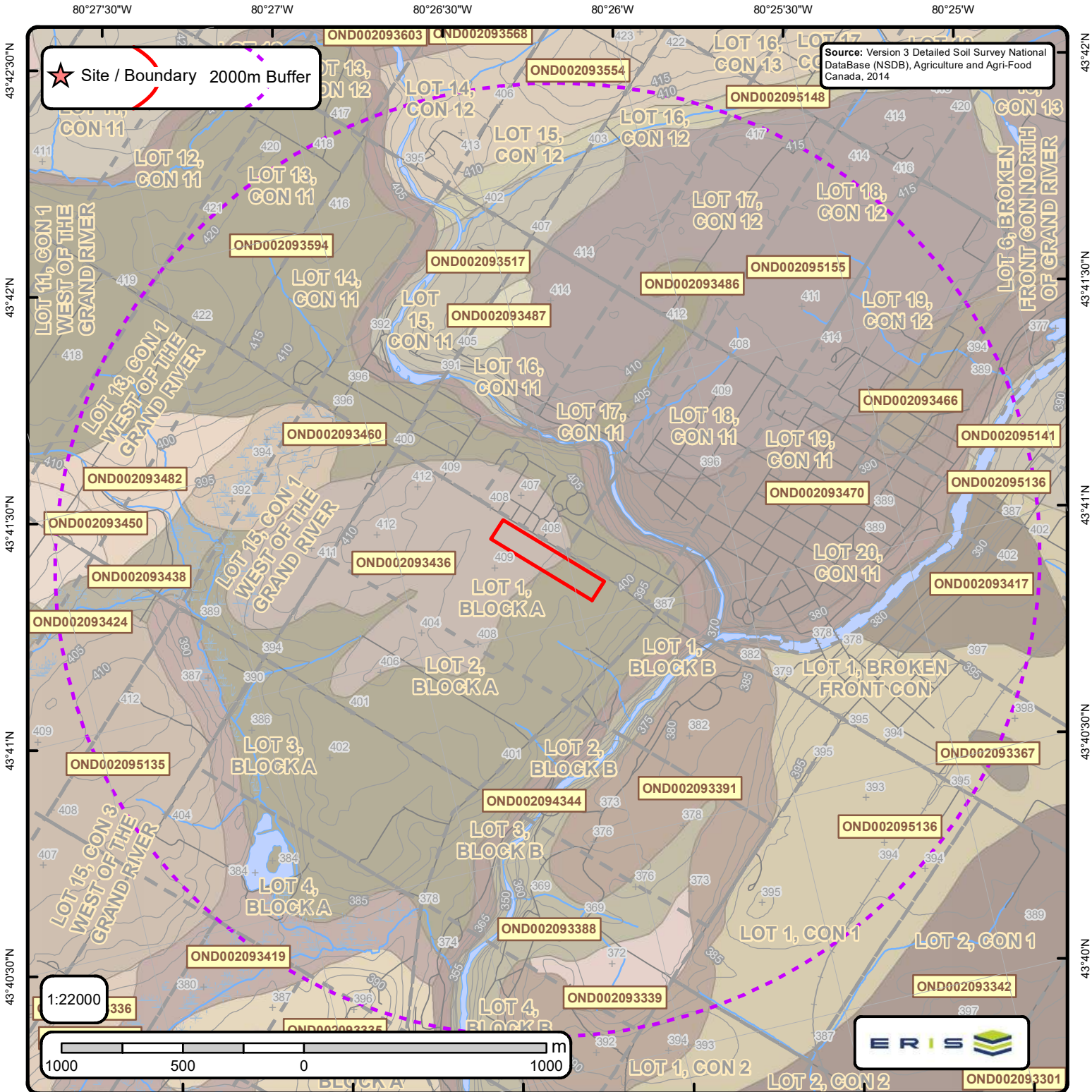
+ Spot Height (metre)	— Transportation Structure	— Contour Line	Wooded Area
■ Building Point	● Utility Line	▭ Pit or Quarry	▭ Conservation Authority
⚡ Towers	— Water Structure	▭ Waterbody	▭ Conservation Area
● Utility Site Point	— Drainage Line Feature	▭ Wetlands	▭ Municipal Park
— Misc. Line	— River or Stream	▭ Concession	▭ Provincial Park
— Railroads	▭ Airports	▭ Lots	▭ National Park
— Roads	■ Tanks	▭ Municipality	▭ Nature Reserve
- - - Trail	▭ Building to Scale	▭ Land Ownership	



Physiography of Southern Ontario

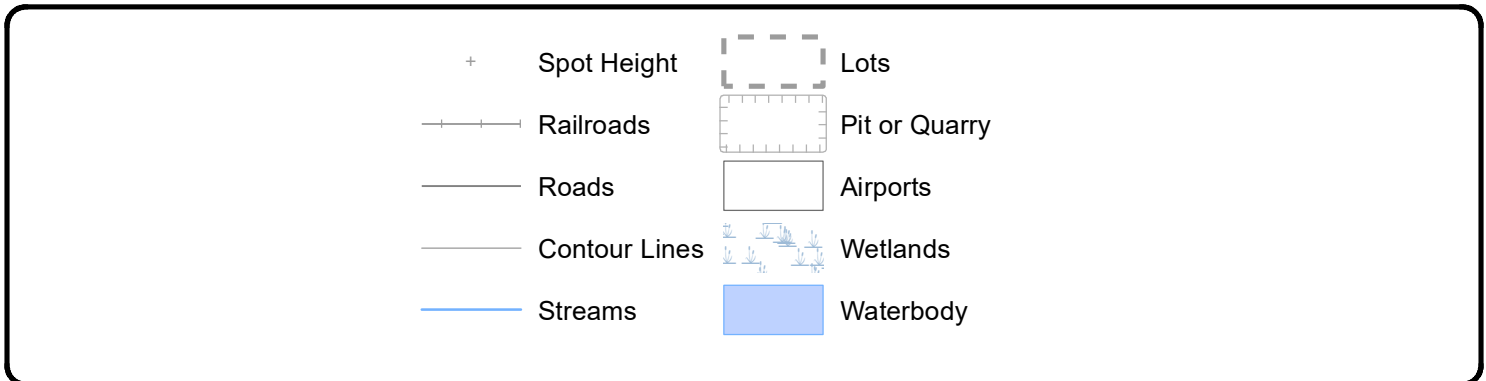
Order No. 22041800252

+ Spot Height	— Lots	◊ Boulder Pavement	■ Bare Rock Ridges And Shallow Till	■ Peat And Muck
— Roads	▭ Pit or Quarry	◊ Dissected Terrain	■ Beaches	■ Sand Plains
— Railroads	▭ Airports	■ Mud Flow Scars	■ Bevelled Till Plains	■ Shale Plains
— Contour Lines	■ Wetlands	▲ Sand Dunes	■ Clay Plains	■ Shallow Till And Rock Ridges
— Streams	■ Waterbody	— escarpment	■ Drumlins	■ Spillways
		— shorecliff	■ Escarpments	■ Till Moraines
		— shorecliff (weakly developed)	■ Eskers	■ Till Plains (Drumlinized)
		■ Physiography Regions	■ Kame Moraines	■ Till Plains (Undrumlinized)
			■ Limestone Plains	



Detailed Soil Survey (ON Soils)

Order No. 22041800252





Soil ID: OND002093460

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND002093466

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONCWO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-23 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 23 | **Total Silt(%)** : 55 | **Total Clay(%)** : 22 | **Organic Carbon(%)** : 6.0 | **pH in Calc Chloride** : 8.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.06 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 23-35 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 42 | **Total Sand(%)** : 47 | **Total Silt(%)** : 33 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 8.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.1 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-52 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 49 | **Total Sand(%)** : 54 | **Total Silt(%)** : 31 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 8.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.02 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 52-80 | **Horizon** : Ckgj | **Layer No** : 4 | **Very Fine Sand(%)** : 21 | **Total Sand(%)** : 24 | **Total Silt(%)** : 54 | **Total Clay(%)** : 22 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 8.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.03 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 80-100 | **Horizon** : Ckg | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 9 | **Total Silt(%)** : 81 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 8.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.06 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002095148

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONPLL~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-23 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 58 | **Total Clay(%)** : 24 | **Organic Carbon(%)** : 4.6 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.583 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 23-60 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 21 | **Total Silt(%)** : 58 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 60-100 | **Horizon** : Ckg | **Layer No** : 3 | **Very Fine Sand(%)** : 10 | **Total Sand(%)** : 23 | **Total Silt(%)** : 56 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.198 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND002095141

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND002095141

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND002093388

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONPLL~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-23 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 58 | **Total Clay(%)** : 24 | **Organic Carbon(%)** : 4.6 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.583 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 23-60 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 21 | **Total Silt(%)** : 58 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 60-100 | **Horizon** : Ckg | **Layer No** : 3 | **Very Fine Sand(%)** : 10 | **Total Sand(%)** : 23 | **Total Silt(%)** : 56 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.198 | **Electrical Conductivity(dS/m)** : 0



Soil ID: OND002093594

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093594

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093367

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND002093367

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093450

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093450

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND002094344

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZST~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Subject to occasional flooding (Inundation) from adjacent streams or waterbodies | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : ABh | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 10 | **Total Silt(%)** : 46 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 2.3 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.228 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093470

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBUF~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-22 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 35 | **Total Silt(%)** : 53 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.157 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 22-30 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 39 | **Total Silt(%)** : 47 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.883 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 30-48 | **Horizon** : Bt | **Layer No** : 3 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 43 | **Total Silt(%)** : 25 | **Total Clay(%)** : 32 | **Organic Carbon(%)** : 0.8 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.333 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 48-50 | **Horizon** : Bt | **Layer No** : 4 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 57 | **Total Silt(%)** : 22 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.714 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : Ck | **Layer No** : 5 | **Very Fine Sand(%)** : 16 | **Total Sand(%)** : 68 | **Total Silt(%)** : 23 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 2.454 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093419

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Soil ID: OND002093438

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONPLL~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-23 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 58 | **Total Clay(%)** : 24 | **Organic Carbon(%)** : 4.6 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.583 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 23-60 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 21 | **Total Silt(%)** : 58 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 60-100 | **Horizon** : Ckg | **Layer No** : 3 | **Very Fine Sand(%)** : 10 | **Total Sand(%)** : 23 | **Total Silt(%)** : 56 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.198 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093554

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093554

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND002093517

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONBRT~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 74 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.295 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-35 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 78 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.251 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-40 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 82 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.257 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 40-60 | **Horizon** : Bt | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 68 | **Total Clay(%)** : 30 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 60-80 | **Horizon** : BC | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 80 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 80-100 | **Horizon** : Ck | **Layer No** : 6 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 86 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.206 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093517

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONBRT~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 74 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.295 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-35 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 78 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.251 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-40 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 82 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.257 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 40-60 | **Horizon** : Bt | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 68 | **Total Clay(%)** : 30 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 60-80 | **Horizon** : BC | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 80 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 80-100 | **Horizon** : Ck | **Layer No** : 6 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 86 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.206 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093436

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONBRT~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 74 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.295 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-35 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 78 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.251 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-40 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 82 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.257 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 40-60 | **Horizon** : Bt | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 68 | **Total Clay(%)** : 30 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 60-80 | **Horizon** : BC | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 80 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 80-100 | **Horizon** : Ck | **Layer No** : 6 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 86 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.206 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND002093436

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONBRT~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 74 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.295 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-35 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 78 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.251 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-40 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 82 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.257 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 40-60 | **Horizon** : Bt | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 68 | **Total Clay(%)** : 30 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 60-80 | **Horizon** : BC | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 80 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 80-100 | **Horizon** : Ck | **Layer No** : 6 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 86 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.206 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093417

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093417

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND002095155

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND002095155

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND002095136

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONLTW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 25 | **Total Silt(%)** : 56 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 3.0 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.596 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-42 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 29 | **Total Silt(%)** : 55 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.528 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 42-70 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 43 | **Total Silt(%)** : 48 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.092 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-100 | **Horizon** : Ckgj | **Layer No** : 4 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 52 | **Total Silt(%)** : 43 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 2.571 | **Electrical Conductivity(dS/m)** : 0



Soil ID: OND002095135

Component No : 2 | **Components(%)** : 20 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002095135

Component No : 1 | **Components(%)** : 80 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093391

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONGUP~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 22 | **Total Sand(%)** : 51 | **Total Silt(%)** : 36 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.54 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-40 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 43 | **Total Silt(%)** : 37 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.534 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 40-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 32 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.22 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND002093391

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONGUP~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 22 | **Total Sand(%)** : 51 | **Total Silt(%)** : 36 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.54 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-40 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 43 | **Total Silt(%)** : 37 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.534 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 40-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 32 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.22 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093487

Component No : 1 | **Components(%)** : 60 | **Soil Name ID** : ONDYK~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : moderately coarse sandy loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of a combination of the Subclasses F and M, or, the presence of a combination of the Subclasses | **Second CLI Limitation Subclass** : Presence of adverse Topography | **Depth(cm)** : 0-21 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 36 | **Total Silt(%)** : 46 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 1.7 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.693 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-27 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 73 | **Total Silt(%)** : 21 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 0.8 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 4.46 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-33 | **Horizon** : Bck | **Layer No** : 3 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 78 | **Total Silt(%)** : 18 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.178 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 91 | **Total Silt(%)** : 8 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 7.754 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093487

Component No : 2 | **Components(%)** : 40 | **Soil Name ID** : ONDYK~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : moderately coarse sandy loam | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-21 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 36 | **Total Silt(%)** : 46 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 1.7 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.693 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-27 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 73 | **Total Silt(%)** : 21 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 0.8 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 4.46 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-33 | **Horizon** : Bck | **Layer No** : 3 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 78 | **Total Silt(%)** : 18 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.178 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 91 | **Total Silt(%)** : 8 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 7.754 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND002093486

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONLW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 25 | **Total Silt(%)** : 56 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 3.0 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.596 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-42 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 29 | **Total Silt(%)** : 55 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.528 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 42-70 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 43 | **Total Silt(%)** : 48 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.092 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-100 | **Horizon** : Ckgj | **Layer No** : 4 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 52 | **Total Silt(%)** : 43 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 2.571 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093482

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONLW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 25 | **Total Silt(%)** : 56 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 3.0 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.596 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-42 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 29 | **Total Silt(%)** : 55 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.528 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 42-70 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 43 | **Total Silt(%)** : 48 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.092 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-100 | **Horizon** : Ckgj | **Layer No** : 4 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 52 | **Total Silt(%)** : 43 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 2.571 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093339

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONCAD~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 60 | **Total Silt(%)** : 30 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 2.538 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-36 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 59 | **Total Silt(%)** : 36 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 4.261 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 36-48 | **Horizon** : Ae | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 68 | **Total Silt(%)** : 27 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 4.739 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 48-66 | **Horizon** : Bt | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 73 | **Total Silt(%)** : 13 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.68 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-81 | **Horizon** : Ck | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 92 | **Total Silt(%)** : 6 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 8.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.901 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 81-100 | **Horizon** : Ck | **Layer No** : 6 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 85 | **Total Silt(%)** : 11 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 8.2 | **Saturated Hydraulic Conductivity(cm/h)** : 5.273 | **Electrical Conductivity(dS/m)** : 0 |

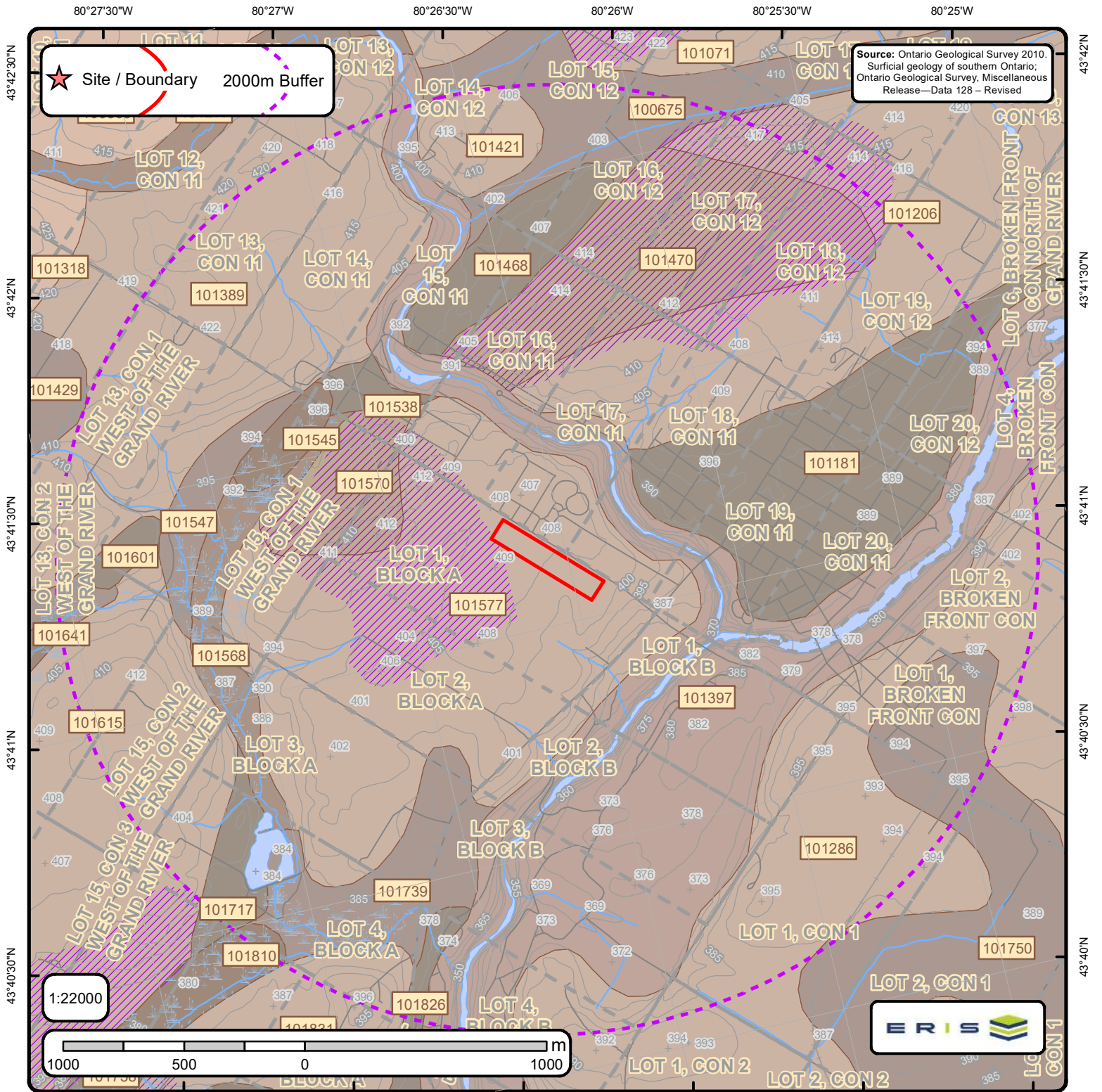


Soil ID: OND002093335

Component No : 1 | **Components(%)** : 60 | **Soil Name ID** : ONBRT~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 74 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.295 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-35 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 78 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.251 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-40 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 82 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.257 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 40-60 | **Horizon** : Bt | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 68 | **Total Clay(%)** : 30 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 60-80 | **Horizon** : BC | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 80 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 80-100 | **Horizon** : Ck | **Layer No** : 6 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 86 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.206 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND002093335

Component No : 2 | **Components(%)** : 40 | **Soil Name ID** : ONHRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 38 | **Total Silt(%)** : 49 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.811 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-38 | **Horizon** : Bt | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 46 | **Total Silt(%)** : 36 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.671 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 1.473 | **Electrical Conductivity(dS/m)** : 0 |



The Surficial Geology of Southern Ontario Order No. 22041800252

+	Spot Height	—	Streams		Dune	—	Beach	—	Esker	—	karst	—	pitsg
	Waterbody	—	Contour Lines		Lake	—	Bluff	—	Esker ND	—	linfeat	—	popup
	Wetlands	—	Roads		Rib	—	Crevasse	—	Fluvial DL	—	megarip	—	ribl
	Airports	—	Railroads		Scab	—	Crest	—	fluvndl	—	mfluvdl	—	slidel
	Pit or Quarry		Morains		Slide	—	End	—	iceberg	—	mfluvndl	—	slumpb
	Lots		NOF Dune		Escarpment	—	Escarpment	—	icslope	—	moraine	—	terrace



ID: 100675 | **Unit Name:** Lacustrine, kame, and outwash |
Deposit Type Code: 9 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Sand

ID: 101181 | **Unit Name:** Outwash |
Deposit Type Code: 7 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel

ID: 101206 | **Unit Name:** Wentworth Till |
Deposit Type Code: 5 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Bruce | **Stratus Modifier:** Surface | **Provenance:** Erie | **Carbon Content:** high | **Formation:** Port Stanley Till | **Permeability:** Low-Medium | **Material Description:** Buff or pink sandy till

ID: 101286 | **Unit Name:** Wentworth Till |
Deposit Type Code: 5 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Bruce | **Stratus Modifier:** Surface | **Provenance:** Erie | **Carbon Content:** high | **Formation:** Port Stanley Till | **Permeability:** Low-Medium | **Material Description:** Buff or pink sandy till

ID: 101389 | **Unit Name:** Wentworth Till |
Deposit Type Code: 5 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Bruce | **Stratus Modifier:** Surface | **Provenance:** Erie | **Carbon Content:** high | **Formation:** Port Stanley Till | **Permeability:** Low-Medium | **Material Description:** Buff or pink sandy till



ID: 101397 | **Unit Name:** Guelph Formation; Amabel Formation |
Deposit Type Code: 1 | **Deposit Age:** Silurian | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Dolomite

ID: 101421 | **Unit Name:** Wentworth Till |
Deposit Type Code: 5 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Bruce | **Stratus Modifier:** Surface | **Provenance:** Erie | **Carbon Content:** high | **Formation:** Port Stanley Till | **Permeability:** Low-Medium | **Material Description:** Buff or pink sandy till

ID: 101429 | **Unit Name:** Lacustrine, kame, and outwash |
Deposit Type Code: 9 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Sand

ID: 101468 | **Unit Name:** Outwash |
Deposit Type Code: 7 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel

ID: 101470 | **Unit Name:** Kames and eskers |
Deposit Type Code: 6 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciofluvial | **Primary General Modifier:** ice-contact | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Sand and gravel



ID: 101538 | **Unit Name:** Outwash |
Deposit Type Code: 7 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel

ID: 101545 | **Unit Name:** Swamps and bogs |
Deposit Type Code: 10 | **Deposit Age:** Recent | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Peat, muck, marl

ID: 101547 | **Unit Name:** Lacustrine, kame, and outwash |
Deposit Type Code: 9 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Sand

ID: 101568 | **Unit Name:** Modern alluvium |
Deposit Type Code: 11 | **Deposit Age:** Recent | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** silt, sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Gravel, sand, silt

ID: 101570 | **Unit Name:** Kames and eskers |
Deposit Type Code: 6 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciofluvial | **Primary General Modifier:** ice-contact | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Sand and gravel



ID: 101577 | **Unit Name:** Wentworth Till |
Deposit Type Code: 5 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Bruce | **Stratus Modifier:**
Surface | **Provenance:** Erie | **Carbon Content:** high | **Formation:** Port Stanley Till | **Permeability:** Low-Medium | **Material Description:**
Buff or pink sandy till

ID: 101601 | **Unit Name:** Outwash |
Deposit Type Code: 7 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General**
Modifier: proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel

ID: 101615 | **Unit Name:** Wentworth Till |
Deposit Type Code: 5 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Bruce | **Stratus Modifier:**
Surface | **Provenance:** Erie | **Carbon Content:** high | **Formation:** Port Stanley Till | **Permeability:** Low-Medium | **Material Description:**
Buff or pink sandy till

ID: 101641 | **Unit Name:** Swamps and bogs |
Deposit Type Code: 10 | **Deposit Age:** Recent | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary**
Material: organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General**
Modifier: | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:**
| **Formation:** | **Permeability:** High | **Material Description:** Peat, muck, marl

ID: 101717 | **Unit Name:** Outwash |
Deposit Type Code: 7 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General**
Modifier: proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel



ID: 101739 | **Unit Name:** Lacustrine, kame, and outwash |
Deposit Type Code: 9 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Sand

ID: 101750 | **Unit Name:** Lacustrine, kame, and outwash |
Deposit Type Code: 9 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Sand

ID: 101810 | **Unit Name:** Swamps and bogs |
Deposit Type Code: 10 | **Deposit Age:** Recent | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Peat, muck, marl

ID: 101826 | **Unit Name:** Outwash |
Deposit Type Code: 7 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel

ID: 101831 | **Unit Name:** Wentworth Till |
Deposit Type Code: 5 | **Deposit Age:** Wisconsinan | **Map Number:** m2153 | **Map Name:** Guelph | **Source Map Scale:** 1:63 360 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Bruce | **Stratus Modifier:** Surface | **Provenance:** Erie | **Carbon Content:** high | **Formation:** Port Stanley Till | **Permeability:** Low-Medium | **Material Description:** Buff or pink sandy till



Surface Geology Report

Surface Geology units found within 2000 m of
350 Wellington Road 7

Page 6
Order No.
22041800252



No Surface Geology units found within search area.



Surface Geology Report Metadata

Ontario Geological Survey 2010. Surficial geology of southern Ontario;
Ontario Geological Survey, Miscellaneous Release - Data 128 - Revised.

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



ID - ID applied to the Unit

Unit Name - Name of deposit

Deposit Type Code - The geological unit number taken from the original map legend.

Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.

Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'

Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.

Primary Material Modifier - This attribute provides the user with a more refined description of the lithological classification of the primary material.

Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.

Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.

Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Phase - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

Stratus Modifier - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

Carbon Content - This attribute provides the user with information regarding the carbonate content of till.

Formation - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

Material Description - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.

APPENDIX I



Water Well Records

September 21, 2022

10:16:31 AM

TOWNSHIP CON LOT	UTM	DATE CNTR	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
NICHOL TOWNSHIP	17 545156 4837203 W	2014-04 7146			72/120/5/1:	DO		7219971 (Z178959) A146942	0002
NICHOL TOWNSHIP 11 018	17 545155 4837144 W	2006-09 6865						6715935 (Z38462) A	
NICHOL TOWNSHIP CON 11 017	17 544965 4837243 W	1966-08 1659	4 4	FR 0150	42/90/4/2:0	DO		6701872 ()	CLAY 0005 WHIT LMSN 0150
NICHOL TOWNSHIP CON 11 017	17 544922 4837349 W	1964-05 1659	4 4	FR 0128	45/70/4/2:0	DO		6701871 ()	CLAY MSND 0011 WHIT LMSN 0128
NICHOL TOWNSHIP CON 11 018	17 545227 4837073 W	2015-04 7557				DO		7241517 (Z192259) A	
NICHOL TOWNSHIP CON 11 018	17 545281 4837054 W	1988-12 1906	5 5	FR 0205 FR 0260	74/200/6/10:0	DO		6709466 (19522)	BRWN CLAY STNS 0025 GRVL 0030 CLAY STNS 0040 LMSN 0140 WHIT ROCK 0260
NICHOL TOWNSHIP CON 11 018	17 545136 4837206 W	1986-10 2564	4 4	FR 0200	60/160/7/2:0	DO		6708670 (NA)	CLAY 0050 LMSN 0216
NICHOL TOWNSHIP CON 11 018	17 545264 4836973 W	1978-04 4856	4 4	FR 0092 FR 0140	/115/3/5:0	DO		6706709 ()	BLCK LOAM 0001 BRWN SAND 0019 GREY HPAN BLDR 0054 WHIT LMSN SHLE LYRD 0086 GREY LMSN HARD 0126 BRWN LMSN HARD 0155 WHIT LMSN 0199 BLUE LMSN 0215
NICHOL TOWNSHIP CON 11 018	17 545134 4837233 W	1976-07 2564	4 4	FR 0200	80/180/5/2:0	DO		6706128 ()	BRWN CLAY SOFT 0035 GRVL CMTD 0051 GREY LMSN 0210
NICHOL TOWNSHIP CON 11 018	17 545280 4837002 W	1965-04 1659	4 4	FR 0124	30/60/4/2:0	DO		6701892 ()	CLAY 0032 GREY LMSN 0124
NICHOL TOWNSHIP CON 11 019	17 545364 4836918 W	2011-12 7221						7175016 (Z137842) A	

Notes:

UTM: UTM in Zone, Easting, Northing and Datum is NAD83; L: UTM estimated from Centroid of Lot; W: UTM not from Lot Centroid
 DATE CNTR: Date Work Completed and Well Contractor Licence Number
 CASING DIA: Casing diameter in inches
 WATER: Unit of Depth in Feet. See Table 4 for Meaning of Code

PUMP TEST: Static Water Level in Feet / Water Level After Pumping in Feet / Pump Test Rate in GPM / Pump Test Duration in Hour : Minutes
 WELL USE: See Table 3 for Meaning of Code
 SCREEN: Screen Depth and Length in feet
 WELL: WEL (AUDIT #) Well Tag . A: Abandonment; P: Partial Data Entry Only
 FORMATION: See Table 1 and 2 for Meaning of Code

1. Core Material and Descriptive terms

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
BLDR	BOULDERS	FCRD	FRACTURED	IRFM	IRON FORMATION	PORS	POROUS	SOFT	SOFT
BSLT	BASALT	FGRD	FINE-GRAINED	LIMY	LIMY	PRDG	PREVIOUSLY DUG	SPST	SOAPSTONE
CGRD	COARSE-GRAINED	FGVL	FINE GRAVEL	LMSN	LIMESTONE	PRDR	PREV. DRILLED	STKY	STICKY
CGVL	COARSE GRAVEL	FILL	FILL	LOAM	TOPSOIL	QRTZ	QUARTZITE	STNS	STONES
CHRT	CHERT	FLDS	FELDSPAR	LOOS	LOOSE	QSND	QUICKSAND	STNY	STONEY
CLAY	CLAY	FLNT	FLINT	LTCL	LIGHT-COLOURED	QTZ	QUARTZ	THIK	THICK
CLN	CLEAN	FOSS	FOSILIFEROUS	LYRD	LAYERED	ROCK	ROCK	THIN	THIN
CLYY	CLAYEY	FSND	FINE SAND	MARL	MARL	SAND	SAND	TILL	TILL
CMTD	CEMENTED	GNIS	GNEISS	MGRD	MEDIUM-GRAINED	SHLE	SHALE	UNKN	UNKNOWN TYPE
CONG	CONGLOMERATE	GRNT	GRANITE	MGVL	MEDIUM GRAVEL	SHLY	SHALY	VERY	VERY
CRYS	CRYSTALLINE	GRSN	GREENSTONE	MRBL	MARBLE	SHRP	SHARP	WBRG	WATER-BEARING
CSND	COARSE SAND	GRVL	GRAVEL	MSND	MEDIUM SAND	SHST	SCHIST	WDFR	WOOD FRAGMENTS
DKCL	DARK-COLOURED	GRWK	GREYWACKE	MUCK	MUCK	SILT	SILT	WTHD	WEATHERED
DLMT	DOLOMITE	GVLV	GRAVELLY	OBDN	OVERBURDEN	SLTE	SLATE		
DNSE	DENSE	GYPG	GYPSUM	PCKD	PACKED	SLTY	SILTY		
DRTY	DIRTY	HARD	HARD	PEAT	PEAT	SNDS	SANDSTONE		
DRY	DRY	HPAN	HARDPAN	PGVL	PEA GRAVEL	SNDY	SANDY SOAPSTONE		

2. Core Color

Code	Description
WHIT	WHITE
GREY	GREY
BLUE	BLUE
GRN	GREEN
YLLW	YELLOW
BRWN	BROWN
RED	RED
BLCK	BLACK
BLGY	BLUE-GREY

3. Well Use

Code	Description	Code	Description
DO	Domestic	OT	Other
ST	Livestock	TH	Test Hole
IR	Irrigation	DE	Dewatering
IN	Industrial	MO	Monitoring
CO	Commercial	MT	Monitoring TestHole
MN	Municipal		
PS	Public		
AC	Cooling And A/C		
NU	Not Used		

4. Water Detail

Code	Description	Code	Description
FR	Fresh	GS	Gas
SA	Salty	IR	Iron
SU	Sulphur		
MN	Mineral		
UK	Unknown		

APPENDIX J





Photograph 1

Location: Phase One Property

Viewing: Northeast

Description: Fencing along the eastern portion of the Property with an entrance from Wellington Road 7. Residential single-family homes in the background.



Photograph 2

Location: Phase One Property

Viewing: Northwest

Description: Active farmland located on the Property.



Photograph 3

Location: Phase One Property

Viewing: South

Description: South portion of the Property with fencing along Property boundary. The Fieldstone Barn visible in background.



Photograph 4

Location: Phase One Property

Viewing: West

Description: West portion of the Property with nearby wetland in background.



Photograph 5

Location: South St.

Viewing: Northeast

Description: Residential single-family homes located east to the Property.



Photograph 6

Location: Phase One Property

Viewing: Northeast

Description: Elora Municipal Cemetery located northeast to the Property.



Photograph 7

Location: Adjacent West

Viewing: South

Description: Standing body of water located adjacent west to the Property.



Photograph 8

Location: Phase One Property

Viewing: Southeast

Description: Wetland located west to the south portion of the Property.



Photograph 9

Location: Phase One Property

Viewing: Southwest

Description: Wetland located west to the south portion of the Property.

APPENDIX K



Phase One Environmental Conceptual Site Model

350 Wellington Road 7, Elora, Ontario

Phase One ESA including Figures of the Phase One Study Area, which identify the following:	Phase One ESA Information:
Existing buildings and structures	Existing building and structures are presented in Figure 2.
Water bodies located in whole or in part on the Phase One Study Area	Water bodies on the Phase One Property and Phase One Study Area are shown on Figure 3.
Areas of Natural Significance located in whole or in part on the Phase One Study Area	No Life Science ANSIs were identified on the property or within the study area. No Earth Science ANSIs were identified on the property or within the study area.
Roads (including names) within the Phase One Study Area	Roads within the Phase One Study Area are shown on Figure 3.
Use of properties adjacent to the Phase One Property	The property uses of the lands adjacent to the Phase One Property are shown on Figure 3.
Location of drinking water wells on the Phase One Property	There are no drinking water wells present on the Phase One Property.
Areas where any PCA has occurred, and locations of tanks in the Phase One Study Area	The locations of PCAs and tanks, if any, are shown on Figure 4. There were no PCAs identified on-Site or within the study area.
APECs on the Phase One Property	There are no APECs assessed
Narrative Description and Assessments	
Any areas where Potentially Contaminating Activity (PCAs) on, or potentially affecting, the Phase One Property have occurred	There were no potentially contaminating activity (PCAs) identified on the property or within the Phase One ESA study area.
Any Contaminants of Potential Concerns (CoPCs)	There were no contaminants of potential concern (COPCs) identified on the property.



<p>The potential of underground utilities (if any present) to affect contaminant distribution and transport</p>	<p>There were no buried hydro, gas, communication, water, or electrical through the Property. There are no COPCs identified.</p>
<p>Available regional or site specific geological and hydrogeological information</p>	<p><u>Topography:</u></p> <ul style="list-style-type: none"> The approximate elevation at the northwestern portion of the Property is 408 metres above sea level (mASL). The Property is relatively flat, with a slight slope towards the southeast to an approximate elevation of 405 mASL. <p><u>Hydrology:</u></p> <ul style="list-style-type: none"> During the site reconnaissance, standing bodies of water located to the northwest of the Property and adjacent west of the south portion of the Property were observed. A wetland was also observed adjacent southwest to the Property. The nearest bodies of water are Irvine Creek, located approximately 250 m to the northeast, and the Grand River located approximately 450 m south of the Property. Lake Ontario is located approximately 60 km to the southeast of Property. Surface water flow is expected to infiltrate through the surface soil and flow with the groundwater. Groundwater is expected to flow southeast, towards Irvine Creek and Grand River, and ultimately south to Lake Ontario. <p><u>Overburden:</u></p> <ul style="list-style-type: none"> Sandy silt to silty sand-textured till. <p><u>Bedrock:</u></p> <ul style="list-style-type: none"> Guelph Formation sandstone, shale, dolostone and siltstone. Based on the MECP Well Records, bedrock was encountered at approximately 25 m below ground surface (mBGS).
<p>Any uncertainty or absence of information obtained in the Phase One ESA that could affect the validity of the CSM</p>	<p>There were no uncertainties, data gaps, or absence of information deemed to have affected the the validity of the CSM.</p>

- Figure 1 – Site Location Plan
- Figure 2 – Phase One Property
- Figure 3 – Phase One Study Area
- Figure 4 – PCA Locations